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WORK AND WEALTH

BY THE SAME AUTHOR

THE EVOLUTION OF MODERN CAPITALISM
THE CONDITIONS OF INDUSTRIAL PEACE
INCENTIVES IN THE NEW INDUSTRIAL ORDER
THE ECONOMICS OF REPARATIONS
THE PROBLEMS OF A NEW WORLD
DEMOCRACY AFTER THE WAR
FREE THOUGHT IN THE SOCIAL SCIENCES
WEALTH AND LIFE
RATIONALISATION AND UNEMPLOYMENT
POVERTY IN PLENTY
THE RECORDING ANGEL

WORK AND WEALTH

A HUMAN VALUATION

by

J. A. HOBSON

LONDON

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PREFACE TO NEW EDITION

This book, an attempt to formulate a method of assessing economic wealth in terms of human welfare, by examining the vital costs and utilities of production and consumption, was first published in the early summer of 1914, on the very eve of the Great War. The shocks of the War itself and of the post-War disturbances have thrown fierce gleams of light upon many of our economic practices and institutions. The opening paragraphs of my 1914 Preface, in which the stability of the monetary standard and the orderly conduct of the exchange of goods of which it was the guarantee, are taken for granted, may serve to illustrate the magnitude of the post-War disturbances. While the methods adopted by the Governments of this and other countries or by the several industries for meeting novel situations have involved some fundamental changes in the structure of industry and commerce, most of these changes have been accelerations of processes already discernible in pre-War industry.

This statement is applicable to the two main tendencies towards the limitation or suppression of *laissez-faire*; to the relations of competing businesses within an industry and of free trade between nations; and to the increasing encroachment of the State upon the field of private business enterprise by public undertakings and by closer regulation of private industry. But important as these changes are, they do not vitally affect the plan and purpose of this book. Certain chapters which have been put 'out of action' by what has taken place, are omitted from this edition, and a number of alterations and corrections have been made. Some figures which might have been changed to make them more conformable to recent facts have, however, been left in their original form, because their size is in no way germane to the argument they illustrate.

PREFACE TO THE FIRST EDITION

The goods and services that constitute our national income are valued severally and collectively with a fair amount of accuracy in terms of money. For a gold standard, though by no means perfect for the work of monetary measurement, is stable and has a single definite meaning to all men. By means of it we can estimate the rates of growth or decline in our industry, as an aggregate or in its several departments, and the quantities of output and consumption of the various products. We can compare the growth of our national wealth with that of other nations.

But how far can these measurements of concrete wealth furnish reliable information regarding the vital values, the human welfare, which all economic processes are designed to yield? Though it will be generally admitted that every increase of economic wealth is in some measure conducive to welfare, every decrease to illfare, nobody will pretend even approximately to declare what that measure is, or to lay down any explicit rules relating wealth to welfare, either for an individual or a nation. Indeed, even the general assumption that every growth of wealth enhances welfare cannot be admitted without qualification. An injurious excess of income is possible for an individual, perhaps for a nation, and the national welfare which an increased volume of wealth seems capable of yielding might be more than cancelled by a distribution which bestowed upon a few an increased share of the larger wealth, or by an aggravation of the toil of the producers.

Such obvious considerations drive us to seek some intelligible and consistent method of human valuation for economic goods and processes. To find a standard of human welfare as stable and as generally acceptable as the monetary standard is manifestly impossible. Indeed, the difficulties attending any sort of calculus of vital values might appear insuperable, were it not for one reflection. Every statesman, social reformer, philan-

thropist, every public-spirited citizen, does possess and apply to the conduct of affairs some such standard or criterion as we are seeking. Some notion or idea, more or less clear and explicit, of the general welfare, crossed and blurred no doubt by other interests and passions, is an operative and directive influence in his policy. Moreover, though idiosyncrasies will everywhere affect this operative ideal, there will be found among persons of widely different minds and dispositions a substantial body of agreement in their meaning of human welfare. The common social environment partly evokes, partly imposes, this agreement. In fact, all coöperative work for social progress implies the existence of some such standard as we are seeking. The complex image of human values which it contains is always slowly changing, and varies somewhat among different sorts and conditions of men. But for the interpretation of economic goods and processes it has, at any time, a real validity. For it is anchored to certain solid foundations of human nature, the needs and functions to which, alike in the individual and in the society, we give the term 'organic.'

Only by considering the organic nature of man and of human society can we trace an intelligible order in the evolution of industry. The wants of man, and therefore the economic operations serving them must be treated as organic processes. This term, borrowed from biology, must be extended so as to cover the entire physical and spiritual structure of human society, for no other term is so well fitted to describe the nature of the federal unity which society presents. The standard of values thus set up is the current estimate of 'organic welfare.'

The justification of these terms and of this mode of human valuation is to be found in their application to the task before us. These tools will be found to do the work better than any others that are available.

In seeking to translate economic values into human by reference to such a standard of organic welfare, I take as the aptest material for experiment the aggregate of goods and services that constitute the real income of the British nation. In order to reduce that income to terms of human welfare, I first examine separately the economic costs of production and the economic utilities of consumption which meet in this concrete wealth,

analysing them into human cost and human utility, the debit and credit sides of the account of welfare. Analysis of the productive processes will, of course, disclose the fact that not all 'economic' costs have human costs attached to them, but that human utilities of varying value inhere in many sorts of productive work. Surveying the different orders of productive energy, from the finest arts to the lowest modes of routine toil, we discover that any two bodies of economic wealth, possessing the same pecuniary value, may differ enormously in the quantity of human cost they carry. For that cost will depend upon the nature of the work, the nature of the workers, and the distribution of the work among the workers. This line of enquiry opens out, in form at any rate, a complete criticism of current English industry, from the humanist standpoint. A similar analysis applied on the consumption side resolves the economic utility of the goods and services into human utility. Here again out of economic utilities much human cost emerges, just as out of economic costs much human utility. Equal quantities of income yield in their consumption widely diverse quantities of human utility or welfare.

Piecing together the two sides of our enquiry into the production and consumption of the income, we perceive, as might be expected, that a sound human economy conforms to the organic law of distribution, 'from each according to his power, to each according to his needs,' and that, precisely so far as the current processes of economic distribution of work and of its product contravene this organic law, waste accrues and illfare displaces welfare. The economic distinction between costs and unearned surplus¹ furnishes in effect a faithful measure of the extent and forms of divergence between the economic and the human 'law' of distribution. For when this surplus income is traced, backward to the human costs involved in its production, forward to the human injuries inflicted by the excessive and bad consumption it sustains, it is seen to be the direct efficient cause of all the human defects in our economic system. Growing in magnitude with the development of the modern arts of industry and commerce, it is the concrete embodiment of the social-economic

¹ This distinction is elaborated in my work, *The Industrial System* (P. S. King & Son).

problem. The absorption and utilisation of the surplus for the betterment of the working-classes and the enrichment of public life are essential conditions for the humanisation of industry. .

The first half of the book is occupied with the general exposition and illustration of this method of human valuation. The second part applies the humanist principles thus established, to the discussion of some of the great practical issues of social-economic reconstruction in the fields of business and politics. The medley of overlapping conflicts between capital and labour, producer and consumer, competition and combination, the individual and society, is sifted so as to discover lines of industrial reformation based upon a conception of organic harmony. The reconstruction of the business, so as adequately to represent in its operation the respective interests of capital, ability, labour and the consumer, is seen to be the first desideratum of reform. Here, as in the wider oppositions between business and business, trade and trade, nation and nation (misconceived as economic units), the more rational standpoint of a humanist valuation suggests modes of reconciliation following an evolution of economic structure in which the corporate or coöperative spirit finds clearer and stronger expression. The most debated question, how far ordinary human nature can yield economic motives to social service strong and reliable enough to enable society to dispense with some of the incentives of competitive greed, hitherto deemed indispensable supports to industry, is discussed in several of the later chapters. The practicable limits of industrial reformation are found to depend upon the reality and importance assigned to 'the social will' as a power operative for industrial purposes, in other words upon the strength of the spiritual unity of society. A final chapter is given to a discussion of the limitations of the scientific and quantitative methods in the interpretation and direction of social-economic life. It is contended that the art of social as of individual conduct must always defy exact scientific guidance, the methods of science being incompetent closely to predict or direct the creative element in organic processes.

The processes of human valuation and judgment, therefore, whether applied to industry or to other activities and achieve-

ments, must ultimately belong to the art rather than to the science of society, the statesman and the citizen absorbing and assimilating the history of the past which science presents in its facts and laws, but using his free constructive faculty to make the history of the future. The failures of the individual statesman or citizen in the performance of this artistic work are due to the fact that a larger artist, whose performance the most enlightened individual can but slightly apprehend, viz. society itself, takes an over-ruling part in the process.

This brief presentation of the argument, dwelling unavoidably upon intellectual method, may possibly have failed to convey the intensely practical purpose which I have kept in mind throughout the preparation of the book. That purpose is to present a full and formal exposure of the inhumanity and vital waste of modern industry by the close application of the best-approved formulas of individual and social welfare, and to indicate the most hopeful measures of remedy for a society sufficiently intelligent, courageous and self-governing to apply them.

Such a work evidently presents a large front for hostile criticism. Its scope has often compelled a rigorous compression in the discussion of important controversial topics, and has precluded all entrance upon the more detailed issues in the policy of reconstruction. But I venture to hope that many readers, who may disagree with the particular valuations and interpretations offered in these chapters, will be led to accept the broader outlines of the method of human valuation here proposed, and will recognise the importance of a better application of this method in the solutions of the practical problems of economic reform.

J. A. HOBSON.

HAMPSTEAD, *

January, 1914.

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WORK AND WEALTH

CHAPTER I

THE HUMAN STANDARD OF VALUE

§ 1. In an age when human problems of a distinctively economic character, relating to wages, hours of labour, housing, employment, taxation, insurance and kindred subjects, are pressing for separate consideration and solution, it is particularly important to enforce the need of a general survey of our economic system from the standpoint of human values. Social students, of course, are justified by considerations of intellectual economy in isolating these several problems for certain purposes of detailed enquiry. But the broader human setting, demanded for the judgment or the policy of a statesman or reformer, can never be obtained by this separatist treatment. For the interactions which relate these issues to one another are numerous and intimate. Taking as the most familiar example the groups of questions relating to the working-classes, we recognise at once how the wages, hours, regularity of employment and other considerations of labour, overlap and intertwine, while, again, the questions relating to conditions of living, such as housing, food, drink, education, recreation, facilities of transit, have similar inter-relations as factors in a standard of comfort. Nor is it less evident that conditions of labour and conditions of living, taken severally and in the aggregate, interact in ways that affect the efficiency and well-being of the people.

The special and separate studies of these various problems must then, in order to be socially serviceable, be subject to the guidance and direction of some general conception which shall have regard to all sorts of economic factors and operations, assessing them by reference to some single standard of the humanly desirable. This general survey and the application of this single

standard of valuation are necessary alike to a scientific interpretation of the economic or industrial world and to a conscious art of social-economic progress. They must exert a control over the division of intellectual labour on the one hand, and over the utilisation of such labour for social policy upon the other. The notion that, by setting groups of students to work at gathering, testing, measuring and tabulating crude facts, relating, say, to infant mortality, expenditure on drink, or wages in women's industries, valuable truths of wide application will somehow be spontaneously generated, and that by a purely inductive process there will come to light general laws authoritative for social policy, is entirely destitute of foundation. The humblest grubber among 'facts' must approach them with some equipment of questions, hypotheses, and methods of classification, all of which imply the acceptance of principles derived from a wider field of thought. The same holds again of the next higher grade of students, the intellectual middlemen who utilise the 'facts' got by the detailed workers 'at the face.' They too must bring wider principles to correlate and to interpret the results got by the humbler workers. So at each stage of the inductive process, laws and standards derived from a higher intellectual stage are brought to bear.

Even if such studies were prompted entirely by a disinterested desire for knowledge, it is evident that their success implies the inspiration and application of some general ideas, which in relation to these studies are *a priori*. But regarding these studies as designed primarily to assist the art of social policy, we must recognise that the inner prompting motive of every question that is put at each stage of such enquiries, the inner regulative principle of the division of labour and of the correlation of the results, is the desire to realise some more or less clear conception of general human well-being. It must, of course, be admitted that this procedure rests upon a sort of paradox. The general conception of human well-being is itself vague and unsubstantial, until it has acquired and assimilated the very sorts of knowledge the collection of which it is here assumed to be able to direct. This paradox, however, is familiar to all who reflect upon the progress of knowledge in any department and for any purpose. I only name it here in order to anticipate the objection of those dis-

posed to question the validity of assuming any sort of standard of human welfare, and to insist upon testing each economic issue upon what they call 'its own merits.' The application of a general survey and a general standard of values is none the less a logically valid and a practically useful procedure, because the new facts which its application discloses afford more fulness and exactitude to the survey, while the standard is itself made clearer and more effective thereby.

Assuming it to be admitted, then, that a human valuation of economic processes is possible and desirable, both for the enlargement of knowledge and for purposes of social policy, the questions next arise, 'How shall we conceive and describe the standard of human valuation, and how shall we apply it to the interpretation of the present economic system?'

§ 2. Before facing these questions, however, it will be well to have before our minds a clear outline picture of this economic system which we seek to value. It consists of two complex operations, constantly interacting, known as Production and Consumption of wealth. By wealth is understood all sorts of vendible goods and services. So far as material wealth is concerned, it is 'produced' by a series of processes which convert raw materials into finished goods of various sorts and sizes and dispose them in such quantities as are required, for the satisfaction of consumers or as instruments in some further process of production. Similarly, in the case of professional, official, domestic, industrial, commercial, and other personal services, which also rank as wealth,¹ a variety of productive processes go to prepare them and to place them at the disposal of consumers. The processes of production may thus be classified as extractive, manufacturing, artistic, transport, commercial, professional, domestic. Thus it is seen that the work of 'distribution' and 'exchange,'² sometimes distinguished from the work of production, is here included in that category.

¹ Labour employed in productive work of industry is usually excluded from the category of national 'wealth', though it is sometimes regarded as 'personal wealth'. But there is no sufficient reason for this exclusion. Any increase of the efficiency of the labour of a nation is evidently as much an increase of its total vendible resources as an increase in its instrumental capital would be.

² Exchange is simply an ordinary branch of production, mainly consisting of

Now, the first difficulty confronting us in our search for a human valuation of this economic system consists in the obscurity in which half this system lies. For though there is everywhere a formal recognition that consumption is the end or goal of industry, there is no admission that the arts of consumption are equally important with the arts of production and are deserving of as much attention by students or reformers of our 'economic system.' On the contrary, so absorbing are the productive processes in their claims upon the physical and mental energies of mankind, that the economic system, alike for practitioners and theorists, has almost come to be identified with these processes. This depreciation and neglect of Consumption no doubt has been natural enough. So much more conscious energy of thought and feeling, and so much more expenditure of time and effort have gone into the discovery, development and practice of the productive arts. Their practice has involved so much more publicity, so much wider and more varied intercourse, and therefore so much more organisation. Consumption, on the other hand, has been so much more passive in its character, so private and individual in the acts which comprise it, so little associated with sequences of thought or purpose, that it has hardly come to be regarded as an art. Hence, even in the more elaborate civilisations where much detailed skill and attention are devoted to the use and enjoyment of goods and services, the neglect of consumptive processes by economic science remains almost unimpaired. The arts of production remain so much more exacting in their demands upon our attention.

The early influence of this dominance of the productive standpoint in economic science has had effects upon the terminology and structure of that science which are serious obstacles to the human interpretation of industry. Unconsciously, but consistently, the early structure of the science was built with exclusive regard to the industrial or productive processes. The art out of which the science grew was concerned with the progress of agricul-

wholesale and retail trade. Distribution has, of course, another and an important economic signification, being applied to the laws determining the apportionment of the product.

ture, manufacture, and commerce, or with problems of money, taxation, and population, regarded mainly or wholly from the productive standpoint. The underlying assumption everywhere was the question, 'How will this or that policy affect the quantity of wealth produced in the country?' always with an important corollary to the effect, 'How will it affect the quantity of wealth, passing as rents, profits, interest, or wages to the several classes of the nation?' But nowhere was there any direct consideration of the arts of consumption, with one particularly instructive exception. The only bit of attention paid by our early classical economists to processes of consumption was to distinguish 'productive' from 'unproductive' consumption, that is, to suggest a valuation of consumption based entirely upon its subordination to future purposes of production. Their condemnation of luxurious expenditure and waste, alike in the wealthy and the working-classes, was not primarily directed against the loss of real enjoyment, or human well-being, or the moral degradation involved in such abuse of spending power, but against the damage to the further processes of making wealth by reducing the rate of saving or by impairing the cheap efficiency of labour. Though occasional considerations of a more distinctively humane or moral character entered into the tirades against luxury, or the dietetic advice offered by these economic teachers, the main trend of their reflections on the use of wealth was quite evidently dominated by considerations of increased production. This tendency further impressed itself upon the central concept of economic science, that of value, which was treated by these early makers of Political Economy exclusively from the productive standpoint of 'costs.' When, however, later theorists, beginning with Jevons in this country, sought to convert the formal goal of consumption into the real goal, by substituting 'utility' for 'cost' as the determinant of value, it might have been supposed that they would have been impelled, passing through the gateway of utility into consumption, to open up that hitherto neglected country. But no such thing has happened. While an elaborate division of intellectual labour has been applied, both to the study of the objective structure of industry, and to the psychology of the various agents of production, no

corresponding studies of consumption have been made. When the products of industry pass over the retail counter, economic science almost entirely loses count of them. They pass from sight into the mysterious maw of 'the Consumer.' It has never occurred to the economist that it is just as important to have a clear and close knowledge of what happens to products when they have become consumer's goods, as it is to trace their history in the productive stages. It would, of course, be untrue to say that modern economists completely ignore methods and motives of consumption. Their studies of value and of markets compel them to direct equal attention to forces regulating Supply and Demand, and many of them assign a formal superiority to the demand for final commodities which issues from Consumers, as the regulator of the whole industrial system. But while this has evoked some interesting enquiries into quantities and modes of consumption, the main interest of these enquiries has lain, not in the light they shed upon the use and enjoyment got from consumption, but in the effects of that consumption upon demand as a factor in problems of price and of production. In a word, the economic arts of consumption still run in subordination to the arts of production, and the very nature of the interest taken in them attests their secondary place. Half of the field of economic survey important from the standpoint of human welfare thus stands unexplored or ill-explored.

§ 3. A necessary result of this identification of economic subject-matter with the productive apparatus, has been to impose upon the study of economics a distinctively mechanical character. The network of businesses and trades and processes, which constitutes industry, may indeed, by an interpretative effort of imagination, be resolved into the myriads of thoughts, desires and relations which are its spiritual texture. Every business, with its varied machinery and plant, its buildings, materials, etc., is the embodiment of conscious human effort, and the personnel of management and operatives represent a live current of volition and intelligence, directing and coöperating with it. A business, thus regarded, is a distinctively spiritual fabric. Nor is this true only of those industries employed in fashioning material goods. The complicated arrangements of

communications and of commerce with their ganglia of markets, by which goods pass from one process to another and are gathered, sorted and distributed in regulated channels throughout the world of workers and consumers, represent an even more delicate adjustment of psychical activities. Economic science tends, undoubtedly, to become less material in its outlook and treatment, and to give more attention to the psychological supports of the industrial system. Not only have we many special studies of such economic questions as saving and investment, business administration and other critical operations of will and judgment, but in such works as those of M. Tarde in France, and Mr. Wicksteed in this country, we find attempts at a systematic psychological interpretation of industry. Economics, indeed, according to the latter writer, is a branch of the science of 'preferences,' the application of intelligent human volition to the satisfaction of economic wants.

And yet the science remains distinctively mechanical and unfitted for the performance of any human interpretation of industry. This is due to the failure of our psychological economists to tear themselves free from the traditions of a Political Economy which in its very structure has made man subservient to marketable wealth. The accepted conception of the Art of Political Economy is that it is directed to the production of wealth whose value is attested by the purely quantitative calculus of money, and the Science of Political Economy is virtually confined to discovering and formulating the laws for the production of such wealth. The basic concepts of Value, Cost, and Utility, are subjected to this governing presupposition. Their primary significance is a monetary one. The value of any stock of wealth is signified in money, the cost of its production, the utility of its consumption, are registered in monetary terms. The psychological researches which take place into processes of thought and desire are not regarded as having significance on their own account, but merely as means or instruments in the working of industrial processes. The study of motives, interests, and ideas in the process of invention, or in the organisation and operation of some productive work, treats these thoughts and feelings not in their full bearing upon human life, its progress or

happiness, but in exclusive relation to the monetary end to which they are directed.

§ 4. It is no concern of ours to criticise this attitude in the sense of condemnation. But it is important to realise that no progress of psychological analysis will enable economic science to supply a human valuation of industry so long as all the human functions involved in economic processes are measured, assessed, and valued, according to their bearing upon the production of a 'wealth' which has no directly assignable relation to human welfare, but is estimated by a purely monetary measure. The net effect of this conception of the economic system as an elaborate arrangement of material and spiritual factors, contributing to the production and distribution of a stream of various goods valued by a monetary standard, is to leave upon the mind the impress of a distinctively mechanical apparatus. No one, for example, can read the masterly work of Mr. Wicksteed¹ without recognising that his delicate, elaborate measurements and balances of motives and preferences, while involving and implying actions that no one but man can perform, treat not only industry, but humanity itself as a psychological mechanism.

This distinctively mechanical character is inherent in the structure of an economic science based upon the subserviency of all human activities to a purely quantitative conception of wealth, and a purely monetary standard of value. This character of economic science is, of course, by no means disabling for all purposes. On the contrary, it furnishes valid instruments for the interpretation of many important groups of phenomena in the business world, and for the solution of certain problems where purely quantitative standards and methods are applicable. Indeed, the increasing devotion of economists to problems of money, price, and other definitely monetary questions, may be taken as a half-instinctive recognition of the real inadequacy of current economics for any very useful solution of those more vital problems into which closely human considerations enter as governing factors. As we proceed, we shall realise in more detail the nature of the incapacity of current economics to furnish any rules for settling issues that relate to wages, hours of labour,

¹ *The Common-sense of Political Economy.*

State interference with private industry, private property, and other human problems which are in first appearance 'economic.'

Three defects appear, then, to disqualify current economic science for the work of human valuation. First, an exaggerated stress upon production, reflected in the terminology and method of the science, with a corresponding neglect of consumption. Secondly, a standard of values which has no consistent relation to human welfare. Thirdly, a mechanical conception of the economic system, due to the treatment of every human action as a means to the production of non-humanly valued wealth.

§ 5. These warning-posts may help us to discover and to formulate an intellectual procedure more suited to our needs. A human valuation of industry will give equal attention to Production and Consumption, will express Cost and Utility in terms of human effort and satisfaction, and will substitute for the monetary standard of wealth a standard of human well-being. This assertion of vital value as the standard and criterion is, of course, no novelty. It has underlain all the more comprehensive criticisms of orthodox political economy by moralists and social reformers. By far the most brilliant and effective of these criticisms, that of John Ruskin, was expressly formulated in terms of vital value. The defects which he found in the current economic science were substantially the same as those which we have noted. His famous declaration that 'There is no wealth but life,' and his insistence that all concrete wealth or money income must be estimated in relation to the vital cost of its production and the vital utility of its consumption, is the evidently accurate standpoint for a human valuation of industry. This vital criterion he brought to bear with great skill, alike upon the processes of production and consumption, disclosing the immense discrepancies between monetary costs and human costs, monetary wealth and vital wealth. No one ever had a more vivid and comprehensive view of the essentially organic nature of the harmony of various productive activities needed for a wholesome life, and of the related harmony of uses and satisfactions on the consumptive side. His mind seized with incomparable force of vision the cardinal truth of human economics, viz. that every piece of concrete wealth must be valued in terms of the vital costs of its production and the

vital uses of its consumption, and his most effective assault upon current economic theory was based upon its complete inadequacy to afford such information. But, though most of his later writings were suffused with this conception of wealth and with the double process of analysis which it involved, nowhere was that analysis systematically applied. There were brilliant excursions into the domain of labour, distinguishing the nobler and the baser sorts, those which are truly 'recreative' and those which degrade and impoverish life. There was the famous distinction between 'wealth' and 'illth,' according to the essential qualities of the goods and the sorts of persons into whose hands they pass for consumption. In the most systematic of his works, *Munera Pulveris*, he, indeed, appears at the outset to have his mind closely set upon the exact performance of the required analysis. For, defining the scope of his work, he says, 'The essential work of the political economist is to determine what are in reality useful or life-giving things, and by what degrees and kind of labour they are attainable and distributable.'¹ Then follows a clear and logical distinction between value and cost. 'Value is the life-giving power of anything; cost the quantity of labour required to produce it.' Had he proceeded to estimate 'Wealth' with equal regard to its value and its labour-cost, the latter expressed in vital terms, the scientific character of his analysis would have been preserved. But unfortunately he allowed himself to be overweighted by a sense of value which stresses 'human utility' of consumption, so that, while the 'utility' side of the equation is worked out with admirable skill, the 'cost' or labour side is slighted, and the organic relation between the two is lost sight of. The confusion wrought in the minds of readers by the failure to find in any of his works a full application of his principle has been responsible for an unjust disparagement of the truly scientific service rendered by Ruskin towards the foundation of social-economics. From a Pisgah height his mind's eye swept in quick penetrative glances over the promised land, but he did not occupy it, or furnish any clear survey.

§ 6. Our purpose here is in part to perform the task indicated by Ruskin, viz. to apply to industry the vital standard of value-

¹ *Munera Pulveris*, § XL.

tion, or at any rate to improve the instruments of vital survey. But only, in part. For our task is in scope less comprehensive than that to which Ruskin applied himself. Though his teaching sprang originally from two related roots of emotional valuation distinctively economic in their bearings, the love of the finer sorts of human work called Art, and the reprobation of the degrading conditions of the work most of his countrymen were called upon to do, it expanded into a wider meaning of 'economy' which included not merely economic activities and economic goods, but all sorts of vital activities and goods. A criticism of current Political Economy, on the ground that it did not treat its accepted subject-matter in a vital manner, thus developed into a constructive Political Economy which not merely humanised the method but expanded the area of the science and art, so as to make it in effect a comprehensive science and art of human welfare.

Now it has always been an open question whether the makers of Political Economy were intellectually justified in severing marketable from non-marketable goods and services, and framing a separate science upon studies of the former. That marketable goods are not always separable from non-marketable, and that the economic activities of man are always inter-related with non-economic activities, are accepted truths. Ruskin's perception of the intimacy of these relations between commercial and non-commercial functions and products led him to break down the barriers set up by Economic Science, in the furtherance of an art which should set up as its goal 'the multiplication of human life at its highest standard.'

Now this enlargement may be quite legitimate. But it was evidently responsible in large measure for the failure of Ruskin to drive home the criticism directed against the current economic teaching. It was one thing to attack Political Economists for failing to take due account of human values in their treatment of processes relating to marketable wealth. It was, however, quite another to insist that the barrier between Political Economy and other social sciences and arts should be torn down, and that all phenomena of vital import should become the objects of its study. Had Ruskin been able to keep to the narrower scope, doubtless

he would not have been Ruskin, but his attack on current economic theory and practice would have been vastly more effective.

This brief excursion into Ruskin's work has been necessary, first in order to make proper acknowledgement of the sound scientific instinct of this great pioneer of social thought, and, secondly, to make it clear that, while accepting his standard of valuation, we do not propose applying it outside the range of economic phenomena in the ordinary acceptance of that term. While admitting the overlapping and interaction of economic and other human functions, we shall accept the ordinary definition of the boundaries of economic studies, and shall seek to make our human survey and apply our human valuation within these limits. The extra-economic implications which the unity of life will disclose cannot, indeed, be ignored, but they will be treated as supplementary to the main purpose, that of valuing the processes directly connected with the getting and spending of money incomes.

§ 7. In setting up a vital standard of valuation, we are likely to be met with the objections that life is too vague, too changing, too incomprehensible for any standard, and that life is not valuable in itself but because of certain qualities which it may possess. Our standard must be conceived in terms of a life that is good or desirable. This consideration might evidently lead us far afield. If we are to undertake a valuation of life as a preliminary to valuing industry, it is likely that we may never approach the second undertaking. The best escape from this predicament is to start from some generally accepted concept which indicates, even if it does not express fully, the desirable in life. Such a term I take to be 'organic welfare.' Though in form a mere synonym for good life, it is by usage both more restricted and more precise. It perhaps appears to thrust into the forefront of consideration the physical basis of life. But the organic concept, when liberally interpreted and applied, carries no such restrictive implication, and its distinctively biological association should not rule it out from the work of wider valuation here required. As a provisional statement of our standard of valuation, 'organic welfare' has two advantages. In the first place,

it supplies an admittedly sound method of estimating those physical costs and utilities with which the major part of industry and of its product is associated. Even in the most advanced civilisation of to-day, economic processes are primarily physical in the efforts they evoke and in the needs they satisfy; the expenditure and recoupment of physical energy constitute the first and most prominent aspect of industry. In tracing the origins of human industry, we shall find this rooted in what appear as half-instinctive animal functions for the satisfaction of 'organic' needs, individual or racial. The primitive direction of productive effort is evidently 'organic.'

Again, the 'organic' point of view avoids two grave errors common to the more mechanical treatment of an economic science which has subordinated man to commercial wealth. It insists upon regarding the productive effort which goes into any work of production and the satisfaction which proceeds from the consumption of any product, not as a separate cost and a separate utility, but in their total bearing upon the life of the producer or consumer. The mechanical separatism of the ordinary economic view follows from a treatment in which the labour bestowed on a product is only a 'cost' in the same sense as the raw materials and tools employed in making it, all alike purchased as separate commodities at a market in which they figure as fractions of a Supply. Similarly with the ordinary economic treatment of consumption. Each consumable is regarded as yielding a quality of utility or satisfaction valued on its own account, whereas in reality its consumable value depends upon the ways in which it affects the entire organic process of consumption. Every speeding-up of a machine-process, or every reduction of the hours of labour, affects for good or evil both the economic and the human efficiency of the whole man: every rise or fall of remuneration for his labour similarly reacts upon the standard of life. Nor is this all. Current economic science has not only treated each cost and each utility as a separate item or unit of economic power, it has treated each man as two men, producer and consumer. The acquiescence in the economic tendency towards a constantly increasing specialisation of man as producer, a constantly increasing generalisation of man as consumer, is only intelligible upon the

supposition that the arts of production and consumption have no relation to one another.¹ The standpoint of organic welfare reduces to its natural limits this useful distinction of producer and consumer, and enables us to trace the true interactions of the two processes. In a word, it obliges us to value every act of production or consumption with regard to its aggregate effect upon the life and character of the agent.

§ 8. Finally, a 'social' interpretation of industry is not possible except by treating society as an organic structure. Whether society be regarded as an 'organism' with a life conceived as comprising and regulating the life of its individuals, in the same manner as a biological organism that of its cells, or as an 'organisation' contrived by individuals entirely for the furtherance of their private ends, it must be treated as a vital structure capable of working well or working ill. I say vital structure, not spiritual structure, for I hold the tendency to interpret social organisation exclusively in terms of ethical ends, and as existing simply for 'the realisation of an ethical order,' to be unwarranted. The men who form or constitute a Society, or who enter any sort of social organisation, enter body and soul, they carry into it the inseparable character of the organic life, with all the physical and spiritual activities and purposes it contains. Particular modes of social organisation, as, for example, a Church, may be treated as directed primarily to spiritual ends, though even there the separation is not finally valid. But society in the broader sense, even though conceived not as an 'organism' but merely as an organisation, must be regarded as existing for various sorts of human purposes. For the impulses to form societies are rooted in broad instincts of gregariousness and of sexual and racial feeling, which are best described as organic, and, though these instincts become spiritualised and rationalised with the progress of the human mind, they never cease to carry a biological import.

Even though one takes, therefore, the extremely individualistic view of Society, regarding it as nothing more than a set of arrangements for furthering the life of individual men and women,

¹ How potent a source of intellectual confusion this separation of producer and consumer is, may be best illustrated from the commonly accepted treatment of the theory of taxation, which regards 'consumers' as a different class of beings from 'producers' for purposes of incidence of taxes.

entirely a means or instrument for achieving the ends of 'personality,' our human valuation of industry will require consideration of its reactions upon the structure and working of these social arrangements.

But this organic treatment of Society is, of course, still more essential, if we consider society not merely as a number of men and women with social instincts and social aspects of their individual lives, but as a group-life with a collective body, a collective consciousness and will, and capable of realising a collective vital end. The disposition to convert sociology into a study, on the one hand, of social feelings in the individual man, on the other of social institutions that are only forms through which these feelings express themselves, is to my mind a wholly inadequate conception of the science of Society. The study of the social value of individual men no more constitutes sociology than the study of cell life constitutes human physiology. A recognition of the independent value of the good life of a society is essential to any science or art of Society.

To a Greek or a Roman, the idea that the city existed merely for the production of good citizens, and without an end or self of its own, would never have seemed plausible. Nor to any Christian, familiar with the idea and the sentiment of the Church as a society of religious men and women, would it occur that such Society had no life or purpose other than that contained in its individual members. Society may then be conceived, not as a set of social relations, but as a collective organism, with life, will, purpose, meaning of its own, as distinguished from the life, will, purpose, meaning, of the individual members of it. To those who boggle at the extension of the biological term 'organism' to society, asking awkward questions as to the whereabouts of the social sensorium, and the integument of a society, or whether a political, a religious, an industrial Society do not conflict and overlap, I would reply that these difficulties are such as arise whenever an extension of boundaries occurs in the intellectual world. The concept 'organism' as applied to the life of animals and vegetables, is not wholly appropriate to describe the life of a society, but it is more appropriate than any other concept, and some concept must be applied. If some qualification is desired,

no objection can be raised against the term super-organism except its length. What is necessary is that some term should be used to assist the mind in realising clearly that all life proceeds by the coöperation of units working, not each for its separate self, but for a whole, and attaining their separate well-being in the proper functioning of that whole. As the structure of the organic cell, the organ, and the organism illustrate this coöperative and composite life, so with the larger groupings which we call societies. An animal organism is a society of cells.

§ 9. So far as the difficulty arising from the narrowly biological use of the term organism is concerned, that is rapidly disappearing before the advance of psychology. For modern biology is coming more and more to realise its early error in seeking to confine itself to the study of life as a merely physical phenomenon. Biology and psychology are constantly drawing into closer relations, with the result that a new science of psycho-biology is already coming into being. In building, thus far, upon a foundation of organic concepts, one is no longer properly exposed to the suspicion of ignoring or disparaging the psychical phenomena which constitute man's spiritual nature.

As biology, thus treating the entire organic nature of man, becomes an individual psycho-physics, so must sociology, treating the wider organic nature of man, become a collective psycho-physics. While then the respective importance of the welfare of the individual and of society may still be difficult to define, the admission of society as a psycho-physical structure, with human ends of its own, will involve its proper recognition in the appraisement of every sort of human value. Our task, that of devising a method of valuation of industry, will evidently demand that economic processes shall be considered, not only in their bearing upon individual lives, but in their bearing upon the welfare of society. Indeed, it is difficult to see how any reasonable person can confront the grave practical problems presented by the industrial societies of to-day, such as those contained in individual, class, sex, national differentiation of economic functions, without realising that the hypothesis of humanity as itself a collective organism can alone furnish any hope of their rational solution.

The significance of the organic conception in any human valuation of industrial acts or products is evident. It requires us to value each act or product both from the standpoint of the individual and of the society to which he belongs, and it furnishes a harmony of the two areas of interest. The baffling problems everywhere presented to thought by the apparent contradiction of the unity and the diversity of nature, the whole and the parts, the general and the particular, find their clearest practical solution in the fact and consciousness of man's social nature, his recognition that in feeling and in action he is both an individual and a member of a number of social groups, expanding in a series of concentric circles from family and city to humanity, and in dimmer outline to some larger cosmic organism.

For our economic valuation, the harmony of this narrower and wider treatment of human nature is of profound and obvious importance. It will require us, in considering the vital costs and satisfactions involved in the production and consumption of goods, to have regard to their effects, not only upon the individuals who produce and consume the goods, but upon the city, nation, or other society to which they belong. Human welfare will be not merely the welfare of human beings taken as an aggregate, but of society regarded as an organic unity. The most delicate economic and spiritual issues of adjustment will be found to relate to the provisions for harmonising the order and the growth of the narrower and the wider organisms. While, then, biology has in the past been too arrogant in pressing distinctively physical implications of the term 'organism' into the dawning science of sociology, and in distorting the true conception of social evolution by enforcing narrow interpretations of selection and survival, this is no ground for refusing to utilise the terminology which, better than any other, expresses the relations of parts to wholes in every sort of living substance.

The contradictions of Production and Consumption, Cost and Utility, Physical and Spiritual Welfare, Individual and Social Welfare, all find their likeliest mode of reconciliation and of harmony in the organic treatment of society.

NOTE. There are doubtless those who will remain dissatisfied with this insistence upon the extension of organism and the conception of the humanly desirable in

terms of 'organic' welfare. They would insist that the conscious personality of an individual or of a society transcends organism, as the latter does mechanism, and that our standard and measure of welfare should be expressed in psychical terms of personality. This point of view has recently been concisely and powerfully restated by Dr. Haldane (*Mechanism, Life and Personality*). But though there is much to say for treating personality as the intrinsic quality of our humanist standard, I decided against the course on a balance of intellectual expediency, preferring to retain the clearness and force of the organic concept while spiritualising it to meet the requirements of ascending life.

CHAPTER II

THE HUMAN ORIGINS OF INDUSTRY

§ 1. Although it is no part of my purpose to endeavour to set forth the facts and laws of the historical evolution of modern industry, it will be useful to make some brief allusion to the origins of industry and property, so as to give concrete meaning to the stress laid upon organic processes in our interpretation. For just in proportion as it is realised that industry has all its earliest roots in the primary organic needs of man, will assent more easily be given to the proposal to adhere to the organic conception of welfare in valuing modern economic processes.

It is not easy to ascertain where the activities which we term industrial first emerge in the evolution of organic life. Every organism selects, appropriates, and assimilates matter from its environment, in order to provide for growth or waste of tissue and energy given out in the general course of its vital processes, including the activities of procuring food, protection against organic or inorganic dangers, and the generation, rearing, and protection of offspring. Nutrition and function are the terms usually applied to describe the primary balance of the vital processes of intaking and outputting energy. The organism feeds itself in order to work. It seems at first as if we had here laid down in the origins of organic life a natural economy of production and consumption. But do the organic processes of feeding, choosing, appropriating, and assimilating food, constitute consumption, and do the other activities for which food is utilised constitute production? Reflection will show that there is very little intellectual service in pressing sharply this distinction. The active life of an organism consists in a round of nutritive, protective, generative processes, each of which, from the standpoint of individual and species, may be regarded alike as productive and consumptive. A plant drives its suckers into the soil in search of the foods it needs, disposes its leaves to utilise the light

and air or for protection against the wind, assimilates its organic food by the use of its stock of chlorophyl, distributes it throughout its system for maintenance and growth, and directs that growth so as to safeguard its own existence and to provide itself with favourable opportunities of fertilisation by insect or other agencies. If due account be taken both of the cellular life within the individual and of the specific life of this plant organism, the whole of the processes or activities appears to be nutritive, each act of nutrition being associated with some other function in the evolution of the cell, the organism, the species. It would be as plausible to assert that every other function, protective, generative, or other, was undertaken for the nutrition of the individual or the species, as to assert the opposite. But, without entering into the delicate metaphysics of this question, we may confidently affirm that in this elementary organic life nutrition and function cannot be regarded as mutually exclusive processes, while the economic contrasts of production and consumption, work and enjoyment, cost and utility, have no clear application. If we approach a stage nearer to human life, we begin to find, in the life of either the lower or higher animals, some organic activities to which the term industry appears applicable. The long, arduous, complex and painful output of energy, consciously put forth by many animals in the search for food, sometimes in the storage of food, in the provision of shelter, in some instances in the use of tools or weapons, in processes of coöperation and division of labour for migration, protection, or combat, certainly approaches what we recognise as industry. It involves a painstaking interference with the material environment for the purposive attainment of some distinct object consciously regarded as desirable, which is of the essence of industry. It may, however, be objected that such processes, though resembling human industry in the intricacy and technical skill involved, are not really purposive in the rational sense, but are merely instinctive, and that, as such, they ought to be distinguished from the rational conduct of human industry. Thus, it is contended that, though the efforts given out by many animals in procuring food, protection against enemies, or provision of shelter, formally correspond with familiar processes of human industry, the direction of instinct makes

the application of this term improper. But, as we proceed further into our psychological analysis of human work, we shall find so large an element of admitted instinct in many forms of it as to preclude us from admitting that 'rational' direction is essential to industry. It is, therefore, permissible for us to give a provisional recognition to such animal activities as containing some, at any rate, of the essential characteristics of 'work' or 'industry.' Indeed, the evident resemblance of these regular activities of animals in seeking food, shelter and protection, to the activities of primitive man applied to the same definitely organic satisfactions, would preclude us from denying to the lower animals what we must admit in the case of men. For, even in primitive men, possessing a certain use of tools and weapons, and a higher degree of cunning in dealing with their environment, the drive and direction of organic instincts and impulses, as distinguished from reflection and reason, appear to be hardly less dominant than in their animal kindred. Unless we arbitrarily reserve the concepts work and industry for a higher stage of social evolution, in which some measure of settled life with tribal and personal property and calculated provision for future wants have emerged, it will be well to seek the roots of the elaborated industrial system which we wish to interpret in these rudimentary and mainly instinctive activities of animals and savage men.

§ 2. In examining these organic activities lying at the basis of human industry, we shall light at the outset upon one fact of extreme significance, viz. that to each of these organically useful efforts Nature has attached some definite physical, or psycho-physical, enjoyment. Hunting, fighting, mating, the care and protection of the young, indeed all actions which possess what is called 'survival value' or biological utility, are endowed with a pleasure bonus as a bribe for their performance. Nature endows most organically useful efforts with concurrent enjoyment.

But, though in these 'organic functions' many animals give out a great deal of 'laborious' effort, commingled with elements of play or of incipient art, as in the dancing, singing and decorative operations of birds, to none of them is the word 'industry' fully applicable. We do not seem to enter the definitely economic

sphere until we find animals sufficiently reasonable to interfere in a conscious way with their environment, for tolerably distant ends. For, though much industrial production and consumption will continue to be either instinctive or automatic in their operation, a growing element of conscious purpose will become essential to the ordered conduct of all industrial processes. The conscious conception of more distant ends and the growing willingness to make present sacrifices for their attainment are the plainest badges of this industrial progress. When a being is aware of these purposes he has entered a rational economy.

As this more rational economy proceeds, the marks which distinguish it from a purely instinctive organic economy become evident. The instinctive economy allows little scope for individuality of life, the dominant drive of its 'implicit' purpose is specific, i. e. subserving the maintenance and evolution of the species. The spirit of the hive in bee-life is the fullest expression of this subservience of the individual life to the corporate life and of the present generation to the series of generations constituting the specific life. But everywhere the dominion of instinct implies the absorption of the individual life in promoting the ends of the species: successful parenthood is the primary work of the individual.

It might almost be said that the dawn of reason is the dawn of selfishness. For rational economy involves a conscious realisation of the individual self, with ends of its own to be secured and with opportunities for securing them. The earliest conception of this separate self and its ends will naturally tend to be in terms of merely or mainly physical satisfaction. Thus the displacement of the instinctive by the rational economy is evidently a critical era, attended with grave risks due to the tendency towards an over-assertion of the individual self and a consequent weakening of the forces making for specific life. Man, the newly conscious individual, may perversely choose to squander organic resources 'intended' by nature for the race upon his own personal pleasures and needs. He may refuse to make as a matter of rational choice those personal efforts and sacrifices for family and race which no animal, subject to the drive of instinct, is able to 'think' of refusing. Such may be an effect of the release from

the life of organic instincts. The increasing supply of foods and other sources of physical satisfaction he may apply to build up for himself a life of super-brutal hedonism.¹ For, when reason first begins to assert supremacy, it is apt to become thrall to the purely animal self. Only as this animal self becomes spiritualised and socialised, does the social race-life reassert its sway upon the higher plane of human consciousness.

§ 3. But it is of importance to realise that a first effect of reason, operating to direct the purposive activities, is to liberate the 'self' from the dominion of the specific life, and to enable it to seek and obtain separate personal satisfactions. For with this power comes the fact and the sense of 'personal property' which play so large a part in industry.

Early industry and early property are largely directed by the requirements of this dawning sense of personality. Though the origins of industry are doubtless found in the promptings of organic utility, they are not of a narrowly 'utilitarian' character. We do not find the earliest industries of man closely confined to the satisfaction of what might seem the most urgent of his organic needs, food, shelter, protection against enemies. The elements of play and ornament are so prevalent in early industries as to suggest the theory, which some anthropologists press far, that adornment for personal glory is the dominant origin of industry and property. So, for example, Bücher² contends that the earliest really industrial activities were a painting and tatooing of the body, and a manufacture of clothing and of other personal apparatus for purely ornamental purposes.

Even the taming of domestic animals was, he held, first undertaken for amusement or for the worship of the gods. The strong attraction of most savage or backward peoples in our day towards articles of ornament and play which afford expression to naïve personal pride, appears to support this view. Primitive man certainly does not evolve towards industrial civilisation by a logi-

¹ 'Ein wenig besser würd er leben
Hättst du ihm nicht den Schein des Himmels Licht gegeben
Er nennt's Vernunft und braucht's allein
Nur thierischer als jedes Thier zu sein.'

² *Industrial Evolution* (Bell & Co.).

cally sane economy of satisfying first his most vitally important material needs, and then building on this foundation a superstructure of conveniences, comforts and luxuries, with the various industries appertaining thereto. This economic man is nowhere found. Actual man, as many anthropologists depict him, appears to begin with the luxuries and dispenses with the conveniences.

This non-utilitarian view of the origins of industry has, however, been driven to excess. There remains a large element of truth in the proverb 'Necessity is the mother of invention.' The earliest weapons and tools, adapted from sticks and stones and other raw material, were probably forced on the dawning intelligence of man by the hard facts of his struggle with hostile nature and his search for food. Fighting, hunting, mating, were presumably his first pursuits and the early arts or industries, at any rate on the male side, would be subsidiary to these pursuits. *Any organised process or handling of matter which would make him a better fighter, hunter, suitor, would be likely to emerge as a craft or industry.* This explains the apparent blend of utilitarian and non-utilitarian origins. In point of fact, most of the so-called ornamental activities and products have their evident biological uses. They are not mere playthings. The adornment of the human body, the use of tatoos and masks, drums and gongs and other play-products, are partly, no doubt, for mere glory of self-assertion, itself an instinctive craving, but also for courtship, for recognition and for frightening enemies. While, then, it remains true that the sportive and artistic impulses are conspicuous in the early crafts, it is a mistake to disparage the organic utility of these processes. After man has made provision for the present necessities of the body, his superfluous energy naturally tends, either to preparatory play, the practice or imitation of biologically useful actions, or else to explorative, constructive, and decorative work in handling such materials as present themselves. This curiosity about his surroundings, and the instinctive desire to construct and arrange them for his convenience, or for the dawning æsthetic satisfaction of his senses, or to impress the female of his race, these instincts undeniably coalesce with the drive of physical necessity to force man to apply his mind to the discovery and practice of the early arts and crafts.

But, though these distinctively male modes of manipulating the environment thus possess a utilitarian aspect, they do not furnish the beginnings of the chief industries which figure in civilised life. The beginnings of manufacture and of agriculture, as regular occupations, are commonly ascribed to women and to slaves. Those who conceive of the earliest human societies as matriarchal or gynæcocratic, the women forming fixed centres of order in the home and village, owning the children and the property attached to the home, regard women both as the inventors and the practitioners of the early handicrafts, including the cultivation of the soil. The beginnings of the arts of pottery, basket-making, building, clothes-making, as well as digging, planting, milling and other processes of preparing food, were doubtless women's work in the first instance, though they were probably raised to the position of regular industries when slavery became common. It is, however, noteworthy that, even in those early handicrafts devoted to the most practical needs of life, the decorative instinct generally finds expression. Not only the weapons of the men, but the pots and pans and other domestic utensils of the women, carry carvings or mouldings, which testify to the play or art impulses. Leisure and pleasure thus appear as ingredients in the earliest industries.

To whatever source, then, we trace the origins of industry, to the use of weapons, snares and other male apparatus for the fight and hunt, to the instincts of play, imitation and adornment as modes of self-expression and of pride, or to the more distinctively utilitarian work of women and of slaves around the home, we find play or pleasure mingled with the work.

This profoundly interesting truth is attested by the long surviving presence of the song and other rhythmic activities in many forms of associated labour, as well as in the dancing which in primitive societies was an almost invariable accompaniment of all important enterprises, war, hunting and harvesting, and which still survives among us in the Harvest Home. Though in slave industries this lighter element doubtless dwindled very low, it seldom died out entirely, as the song of the galley-rowers, or of the Southern negroes in the cotton-fields, testifies. Where the handicrafts thrived among free men in

Europe, everywhere the motives of play, personal pride and prowess, find liberal expression in industry.

§ 4. This slight and necessarily speculative sketch of the origin of industry is designed to enforce two facts. In the first place, we can trace in every rudimentary industry the promptings of vital utility, laying the foundations of an economy of efforts and satisfactions which furthers the organic development of the individual and the race. In the second place, we everywhere find what we call distinctively economic motives and activities almost inextricably intertwined, or even fused, with other motives and activities, sportive, artistic, religious, social and political.

To trace the history of the process by which in modern civilisation economic or industrial activities have separated themselves from other activities, assuming more and more dominance, until the Industrial System and the Business Man have become the most potent facts of life, would lie beyond our scope. Nor is it at all necessary. What is important for us to realise, however, is that this process of industrialisation, through which the civilised peoples have been passing, is beyond all question the most powerful instrument of education. It appears to have done more to rationalise and to socialise men than all the higher and more spiritual institutions of man, so far as such comparisons are possible. It has rationalised man chiefly by compelling him to exercise foresight and forethought, to subdue his will and train his active faculties to the performance of long and intrinsically disagreeable tasks, in order to realise some more and more distant object of desire, and by obliging him to recognise the rigorous laws of causation in his calculations. It has socialised him by weaving an ever more elaborate tissue of common interests between him and a growing number of his fellow men, and by compelling him to engage in closer coöperation with them for the attainment of his ends. Though this socialisation is far more advanced in objective fact than in thought and feeling, it remains true that the direct and indirect association of larger and more various bodies or men in modern industry and commerce is the first condition and the strongest stimulus to the expansion and intensification of the social will.

It is this orderly rational system of industry, employing, as it

does, the organic powers of man for the satisfaction of his organic needs, that we seek to submit to valuation.

The immense variety and complexity of the arts and crafts of which such a system of human industry consists, the long interval of time which often intervenes between acts of production and of consumption, the differences of personality between those who perform the efforts of production and those who utilise or enjoy the fruits of those efforts in consumption, immensely remote as they appear from the simple organic economy of primitive man, do not escape an ultimate dependence upon organic laws and conditions. A human valuation, therefore, must insist upon expressing them in terms of organic welfare, individual and social. As human activities and enjoyments ascend in the process we term civilisation, we shall expect to find this organic life becoming more psychical, in the sense that their modes are more 'reasonable' and the emotions that attach to them are more spiritual, i. e. less directly driven by animal instincts. So too we shall expect industrial progress to contribute to a growing adjustment between the individual and the social economy, restoring under the form of reasonable social service to the more highly individualised members of a modern society an increasing measure of that subservience to the organic welfare of mankind which instinct was able to secure upon a lower plane of conscious life.

CHAPTER III

REAL INCOME: COST AND UTILITY

§ 1. Approaching on its concrete side the economic system the human values of which we seek to ascertain, we find it to consist in a series of productive processes bringing various goods and services into marketable shape, accompanied by a series of consumptive processes in which these goods and services are used, wasted, or otherwise disposed of by those who buy them for personal uses. The former set of processes, as we have recognised, occupies a place of so much greater prominence and publicity as virtually to absorb the science of industry or 'economics', leaving to the processes of consumption an obscure and entirely subordinate position. Our organic or human valuation starts with a protest against this assumption of inequality in the arts of production and consumption. Its interpretation of economic processes will be disposed to lay as much stress upon the history of the various commodities after they leave the shop-counter and pass into the possession of consumers as before. The human good and evil associated with economic 'wealth' must, viewed from the organic standpoint, depend as much upon the nature of its consumption as upon the nature of its production.

This consideration will determine our method of applying the human standard of values. Accepting at the outset the convenient distinction between the processes of production and consumption, we shall approach the economic system at the point where the two processes meet, that is to say where wealth emerges from the productive processes as Income, in order to pass as such into the possession of persons entitled to consume it.

To make the enquiry simpler and more easily intelligible, we will ignore for the present all the extra-national or cosmopolitan conditions of modern industry, and assume that we are dealing with a closed national system producing, distributing, and consuming the two thousand million pounds' worth of goods and

services roughly estimated to constitute the current annual income of the British nation.

§ 2. Now the habit of regarding wealth and income in terms of money is so deep-seated and persistent as to make it difficult for ordinary 'business' men to realise these words in any other than a monetary sense. The ordinary mind has to break through a certain barrier of thought and feeling in order even to present to itself the significance of 'real' wages or 'real' income, as distinguished from money wages and money income. This dominion of the monetary standard is illustrated by the almost instinctive thrill of elation that is felt when we are informed that the income of the nation has risen from about £1,200,000,000 in 1870 to £2,000,000,000 in 1912.¹ So accustomed are we to regard money as the measure of the desirable, that we feel that this rise of money income must imply a corresponding rise in national welfare. It requires some effort of mind to realise even the two obviously important factors of the increase of population and the shift of prices, which, when once realised, so evidently affect the bearing of the money income upon the national welfare. Year after year trade reports and other official documents, in comparing the relative economic position of the various nations or the fluctuations of trade within a single nation, habitually encourage this misleading influence of the financial standard by publishing crude, uncorrected monetary values as if they were indicative of industrial facts, and statesmen take such figures as valid evidence on which to base a policy.

As regards the particular object of our enquiry, this obsession of the general mind by the monetary standard makes it impossible for us even to assume that all our readers attach a clear and consistent meaning* to the term 'real' income. It is not quite easy at first to grasp the central and essential fact that every receipt

¹ I have taken the estimate of the total income of the nation made by Mr. Flux in his *Reports of the First Census of Production for the United Kingdom (1907)* as the basis for the round figures adopted here for aggregate income and for savings. As a matter of fact Mr. Flux assigns to savings a slightly higher figure and proportion of income than that taken here. But since for our purpose nothing depends upon the exactitude of the figures (and indeed Mr. Flux claims no such exactitude for his) it is more convenient for us to take the round figures of our text, though probably in both instances, i. e. aggregate income and savings, they are somewhat below the true figures for 1912.

of any sort of income, whether as wages, rent, salary, interest, profit, fees or otherwise, involves the coming into being of a bit of 'real' income in the shape of some material goods or some saleable service.¹ This fact once grasped, however, it becomes evident that the £2,000,000,000, said to be the nation's income, is merely the monetary representative of goods and services which are the net product of the economic activity of the year, the quantity of wealth produced over and above that which has gone to maintain the existing material fabric of industry. The aggregate amount of 'wealth produced' is, of course, considerably greater, for a large quantity of the productive power must continually be employed in repairing the wear and tear sustained by the material instruments of production, the land, buildings, machinery and tools and other forms of 'fixed' capital, and in replacing the raw materials and other forms of 'circulating' capital which have passed out of the productive processes into consumable goods. The net 'real' income consists of the goods and services produced over and above this provision for the maintenance of the material structure of the system.

There is, however, an important qualification to this mode of reckoning the net real income of the nation which needs mention. While the portion of the current product which goes to replace this wear and tear of land and capital is not included in the goods and services represented by the £2,000,000,000 and classed as real net income, the wear and tear or maintenance fund of labour is included in it. When consideration is taken of the distribution of what is often termed the national dividend between the respective owners of the factors of production, this anomaly is seldom borne in mind. In estimating the income of labour the replacement fund is counted; in estimating the income of land and capital it is not counted. But, illogical as this discrimina-

¹ There is no commoner stumbling-block to the beginner in the study of Political Economy than the fact that the income of a rich man, amounting to say £10,000, when paid away to persons who sell him goods or personal services, seems to count 'over again' as incomes of these persons. Why, they are disposed to ask, should the private secretary who receives £400 out of this £10,000 be required to pay an income-tax upon a sum which (as they say) has already paid its share as part of the £10,000? Nothing but a grasp of the fact that the secretary produces a 'real' income of 'services' corresponding to this £400 which he receives clears up the misunderstanding.

tion is, usage has so universally accepted it that it will be best for us in a work not chiefly concerned with the problems of objective distribution to give a provisional acceptance to it.

The real net income, or national dividend, corresponding to the £2,000,000,000, consists of the goods and services at the disposal of the recipients of this money income. By applying each sovereign as they received it in rent, wages, interest, profit, fees, etc., to purchase consumable goods or services, they might consume the whole of it during the current year. In that event, though provision would have been made for the bare upkeep of capital, no provision would have been made for its enlargement or improvement with a view to the future increase of production. In point of fact, that provision is made by applying a considerable portion of the net money income, say £300,000,000, to demand, not consumable goods or services, but more instruments and materials of production. As this process goes on continuously, it implies that a large part of the industrial activity of the nation is engaged in making not consumable but new capital goods.¹ This saving process has an important psychology of its own to which we shall give some attention later on. At present it need only be considered as a reduction in the net income of consumable goods and services at the disposal of a progressive community for current use and enjoyment. This wealth, actually available for current use, the food, clothing, shelter and other domestic necessities and conveniences, the travel, information, education, recreation, professional, official and domestic services, the various sorts of material and non-material comforts and luxuries, constituting the current net real income of consumer's goods, is the primary object of our valuation. The new machines, tools, buildings, materials and other forms of capital, expressing the £300,000,000 of savings, though entering our analysis upon the costs side equally with goods used for immediate consumption, do not figure directly on the consumption side, but only indirectly in the future consumables which they assist to produce.

§ 3. But as regards the application of our analysis, it makes no

¹ About half of this passes under the head of over-seas investments into the industrial systems of other nations, though the interest upon this foreign capital is available for consumption in this country.

real difference whether we take the narrower connotation of the national dividend which includes only consumable goods, or the broader one which includes savings. It will no doubt easily be admitted that a merely pecuniary statement of the 'value' of this dividend conveys no reliable information as to the human or vital welfare it involves. Making due allowance for all temporal or local variations of price, the statement that the national income has doubled in the last century, or even that the income per head of the population has doubled, affords no positive proof that any increase has been made in the national welfare, much less how much increase. Unless, however, we adopt an attitude of general scepticism towards the economic structure of 'civilisation,' we may admit, with Professor Pigou,¹ a presumption that a growth of the national dividend faster than the growth of population implies some increase of welfare. But even that presumption must be qualified by the reflection that it really rests upon a view of marketable wealth which has exclusive regard to its supposed utility in consumption without any corresponding consideration of the cost of its production. A pecuniary statement of the national dividend which contained no information as to the nature of the goods and services comprising it, may be repudiated out of hand as useless for our purpose. For upon such a statement £1 'worth' of 'trade gin' has precisely the same value as £1 'worth' of 'best books' or of wholesome bread, £1 worth of hand-made lace sweated out of peasant women at the cost of their eyesight has precisely the same weight in the money income of the nation as £1 worth of carpentry or of medical attendance.

§ 4. If we are to estimate the human value of a given national income, it is evident that we must secure answers to three questions. We must first learn what the concrete goods and services are which constitute the 'real' income, and then we must trace these concrete goods and services backwards through the processes of their production and forward through the processes of their consumption, in order to learn the human costs and utilities which attach to each. The amount of human wealth or 'illth' which each of these concrete 'goods' contains has, strictly speaking, no assignable relation to the money ticket put upon it when

¹ *Wealth and Welfare*, Chap. I.

it is sold. That sum of human value can only be worked out in terms of the actual processes of production and consumption through which the 'goods' pass. Some students of current political economy may perhaps be disposed to cavil at this criticism, insisting that on the average things must be sold in proportion to the painful or otherwise distasteful efforts of producing them, or in proportion to the pleasant or otherwise serviceable modes of their consumption. On the average, they will contend, a rational calculus of pleasure and pain underlies the operations of the economic system. This position, however, I claim to undermine by showing, first that this 'rational' calculus rests upon assumptions of free choice and competition which are unwarrantable, and secondly, that this rational calculus of current pleasures and pains, so far as it is operative, is not a valid criterion of human welfare as conceived in the terms of organic welfare. Our task, it must be realised, is not that of reducing monetary values, or the concrete goods to which they refer, to terms of average current desirability, but to terms of that desirability corrected so as to conform to the best-approved standard of the desirable. In a word, the defects of average current estimates and desires, in part causes, in part effects of a defective industrial economy, must themselves be valued and discounted in terms of our human ideals of individual and social life.

§ 5. With this organic standard, the nature and validity of which will become clearer with use, let us set about our task of finding methods for assessing in terms of human value the stocks of concrete goods and services which are the real net income of the nation. The human, as distinguished from the money and the 'real' dividend, will consist of the amount of vital or organic welfare conveyed in the producing and consuming processes for which this concrete income stands. What we require then is to apply some sort of calculus of human cost and human utility to these processes. Now we are confronted at the outset by the position of an economic science which conceives production entirely in terms of 'cost', consumption entirely in terms of 'utility'. Indeed, the economic doctrine of value hinges almost entirely upon this antithesis. For it is mainly owing to its 'costs' that a limit of scarcity is set on each 'supply', while it is the 'utility'

accorded by consumers that gives economic force and meaning to 'demand'. Hence production is conceived as a process which rolls up costs into commodities, consumption as a process that unrolls them into utilities.

Now an organic interpretation of industry cannot accept this mode of conceiving the productive and consumptive functions. Considerations of the organic origins of industry lend no support to the assumption that production is all 'cost' and no 'utility', consumption all 'utility' and no 'cost'. On the contrary, in our human analysis of economic processes we shall rather expect to find costs and utilities, alike in their sense of pains and pleasures and of organic losses and organic gains, commingled in various degrees in all productive and consumptive processes.

Our aim will be to set out, as well as we can, reliable rules for examining the productive and consumptive history of the various sorts of concrete marketable goods so as to discover the human elements of cost and utility contained in each, and by a computation of these positives and negatives to reach some estimate of the aggregate human value contained in the several sorts of commodities which form the concrete income of the nation and in this income as a whole. Only by some such process is it possible to reach a knowledge of the real wealth of nations.

We may state the problem provisionally in three questions:

1. What are the concrete goods and services which constitute the real national income?
2. How are these goods produced?
3. How are they consumed?

But in truth the consideration of the so-called 'concrete' nature of these goods is as irrelevant to our analysis as that of the money ticket placed on them. For from the standpoint of welfare these goods are nothing but the activities of those who produce and consume them, or, if it be preferred, the human processes of production and consumption. The human meaning of any given stock of wheat in our national supply will consist of the efforts of body and mind, the thought and desire and directed skill, put into the several processes of preparing the soil, sowing, tending, reaping and marketing the wheat, undergone by the farmer in Manitoba or in Norfolk, the merchant, shipper, miller,

baker who convey it from the farm and convert it into bread, and finally the activities of mastication, digestion and assimilation with the accompanying satisfaction as it passes into the physical system of the consumer. And so with every other sort of concrete marketable goods or services. From the standpoint of human value, they are wholly resolvable into the physical and mental activities and feelings of the human beings who produce and consume them. It is the balance of the desirable over the undesirable in these several activities and feelings that constitutes the human value of any stock of marketable goods. The standard of desirability will be the conception of the organic well-being of the society to which the individuals whose activities and feelings are concerned belong.

Or the several stages of interpretation may be expressed as follows. A given money income must first be resolved into the concrete goods which it expresses: those goods must then be resolved into the various efforts of production and satisfactions of consumption, estimated according to the current ideas and desires of the individuals who experience them: these current individual estimates of the desirable must be adjusted by reference to an ideal standard of the socially desirable. The extent of this latter process of adjustment will, of course, depend upon how far the actual current ideas and feelings of individuals are kept in essential harmony with the true standard of social well-being by the natural evolution of an organic society.

§ 6. Our task in seeking to devise a method for the human interpretation or valuation of Industry consists then in confronting the goods which form the net consumable income of the community, and in finding answers to the two related questions:

What are the net human costs involved in their production?

What are the net human utilities involved in their consumption?

A simple sum in subtraction should then give us the result we seek—so far as any such quantitative calculus is valid and feasible.¹

Now though economists, of course, are well aware that many

¹ The exceedingly important question of the limits to the validity of such a quantitative calculus is discussed in the concluding chapter.

of the processes of production contain elements of pleasure and utility to the producers, while some of the processes of consumption contain elements of pain and cost to the consumers, they have, rightly from their standpoint, ignored these qualifications in their general formulae, and have represented 'goods' from the producer's side as consisting entirely of accumulated costs, while from the consumer's side they constitute pure utility. Though our brief preliminary survey of the origins of industry indicates that no such sharp distinction between production and consumption can ultimately be maintained, and that throughout the whole continuous career of goods from cradle to grave the activities bestowed on them are composites of pleasure and pain, cost and utility, organic gain and organic loss, socially desirable and socially undesirable, it will be expedient to take our start from the commonly-accepted economic position, and to give separate consideration to the human values underlying processes of production on the one hand, processes of consumption on the other.

The general lines along which such an investigation must proceed are unmistakable.

In order to express business 'costs' in terms of human cost, we require to know three things:

1. The quality and kind of the various human efforts involved in the business 'cost'.
2. The capacities of the human beings who give out these efforts.
3. The distribution of the effort among those who give it out.

Corresponding strictly to this analysis of 'costs' of Production will be the analysis of 'utility' of Consumption. There we shall want to know:

1. The quality and kind of the satisfaction or utility yielded by the 'economic utility' that is sold to consumers.
2. The capacities of the consumers who get this 'economic utility'.
3. The distribution of the economic utility among the consuming public.

The humanist criticism of Industry is condensed into this analysis. The humanist requires that the effort expended on any sort of production shall be such as to contain a minimum of

painful or injurious or otherwise undesirable activity. His complaint is that Industry, as actually organised and operated under a system which treats all forms of productive human effort as marketable goods, does not secure this human economy. The humanist requires that the persons set to give out undesirable effort, 'human cost', shall be those best capable of sustaining this loss. Weak women or children, for example, shall not be set to do work heavy or dangerous in its incidence, when strong men are available who could do it easily and safely. The humanist requires that undesirable or humanly costly work shall not merely be confined to classes of persons capable of performing it most easily and safely, but that the distribution of such effort shall, as regards length of time and intensity of pace, be such as to reduce the human cost per unit of product to a minimum. The humanist criticism of Industry upon the Costs side consists in pointing out that there is no adequately reliable or normal tendency for the business economy of costs to conform to this three-fold human economy.

Similarly, turning to the consumption side, the humanist points out: 1. That many of the 'goods' sold to consumers are inherently destitute of human utility, or, worse, are repositories of disutility; and that money values is no true key to human utility. 2. That the amount of utility or welfare to be got out of any goods depends upon the character, the natural or acquired capacity, of the particular consumers or classes of consumers into whose hands they fall. 3. That a true economy of consumption, therefore, involves their distribution among consumers in proportion to their capacity to use them for purposes of welfare. It is contended that the current working of our industrial system, on its distributive and consumptive side, makes no reliable provision for securing that the maximum of human utility shall attach to the consumption of the national income.

§ 7. To test in detail the exact validity of this humanist criticism would require us to examine the costs and the utility, economic and human, represented in each item of all the various supplies of goods and services which constitute the national income. This is manifestly impracticable. Nor is it necessary for our purpose, which is to establish a sound method of valuation

rather than to endeavour to form an exact computation of the values it discloses. With this object in view it will be sufficient to direct our enquiry to the accepted classes or grades of human activities figuring as economic costs, and the corresponding classes or grades of human utilities affected by consumption.

Let us begin with the 'costs' side.

Accepting the general categories of costs of production, as rent, interest and profit, salaries and fees, wages (for all other business 'costs', as for instance, cost of material, machinery, fuel, can be resolved into these), let us consider what is the nature of the human costs for which these payments are made, in the chief orders of industry, and how these human costs are related to the economic costs.

At the outset of this enquiry, however, it will be convenient to eliminate one economic 'cost' of considerable magnitude from our consideration, viz. economic rent. For, although Nature, or the earth, may in a study of objective industry be regarded as a productive agent, yielding materials, physical energy, and special utilities, this work involves no human effort, and therefore is represented by no human cost. This statement, of course, by no means implies that human foresight and activities play no part in the effective supply of land and other natural resources. Such resources, hitherto existing outside the industrial system, are continually being discovered, brought within reach and developed by human skill and effort, while new or improved uses are continually being obtained from natural resources already within reach. In such processes of discovery and development much capital, ability, and labour, are constantly engaged, the costs of which must be defrayed. Moreover, in certain uses of land for agricultural and other purposes, provision must be made for wear and tear or replacement. But all such costs or expenses are really payments for the capital and labour employed on this work of development or upkeep. They are not payments for the use of natural resources. They are not economic rent. That business cost has no human cost attached to it. From the standpoint of the manager of a particular business the payment of rent is necessary to enable him to get the use of the land or other natural agent he requires. Where private property in land ex-

ists, the payment of such rent is legally necessary. Where the maintenance of such legal rights has enabled land values to exchange freely with other forms of wealth, a moral expediency may be claimed for the payment of rent. But no human cost corresponds to it. In the organic interpretation of industry, it figures as waste. While, therefore, due account must be taken of this division of wealth or human utilities in any final survey of our social economy, it may be dismissed from our immediate consideration.

§ 8. In order to get a clear understanding of industry regarded from the standpoint of human costs, it will be convenient to fasten our attention first on the structure and working of the single businesses which are the productive units of the system. For the business is a closer, more compact, and more intelligible structure than the trades, markets, or other larger divisions of industry. We shall, therefore, endeavour to analyse the combinations of human effort as they are expressed in the various types of business, so as to discover and to estimate the human costs that are involved.

Though the term Business, as we use it here, must be extended so as to include all sorts of centres of economic activity not commonly included, such as a school, a doctor's practice, a theatre, it will be best to take for our leading case an ordinary manufacturing business. Here are gathered into close coöperation a large number of human and non-human factors of production. The centre of the little system is the manager, employer, or director, whose ideas, desires, and purposes govern and regulate the movements of the various forms of capital and labour. This man has got together on his premises a quantity of machinery and other plant which express a complicated growth of invention running far back into the past and derived from great numbers of human brains. These machines and plant embodying these inventive ideas were made by past labour of various kinds. This manager or director, in planning the Business, chose what seemed the best apparatus for the purposes he had in mind. He induced a number of investors or capitalists to lend the money which enabled him to obtain this apparatus, and to hire the various sorts of labour power required to operate it. This labour power itself is

the product of the energies of man in the past, the direct ancestry of the labourers who produced the beings that give forth the labour-power, the past generations of men whose growing knowledge and practice yielded the training and the habits of industry and of coöperation essential for the productiveness of labour in the modern arts of industry.

Here are evidently many different sorts of human effort, some of them physical, others intellectual, some pleasurable, others painful, some beneficial, others detrimental, to the individuals who give out the effort, or to society.

All of these productive energies rank in Political Economy as 'costs', and as such are remunerated out of the product. Which of these are human 'costs' and in what sense and what degree? Such are the questions that lie immediately before us, if we are seeking to reduce our £2,000,000,000 to terms of human well-being.

§ 9. In this conversion of economic into human costs we can best begin by considering the fundamental distinction between creation and imitation, enforced with so much penetration by the French sociologist, M. Tarde. It is not in its primary significance a doctrine of costs, but a division of productive energy into two classes. All social progress, indeed all social changes upwards or downwards, according to this theory, comes about in the following way. Some unusually powerful, original, or enterprising person, assisted often by good fortune, makes what is called a discovery, some true and useful way of doing things or of thinking about things, or even of saying things. This new truth, new phrase, new dodge, is capable of being recognised as interesting or useful, not only by its discoverer, but by the many who had not the wit or the courage or the luck to discover it for themselves. By suggestion, infection, contagion, or conscious imitation, or by any combination of those forces and habits that constitute the social nature of man, the novelty becomes adopted and applied by an ever-growing number of persons, over a widening area, until it becomes an accepted practice or convention of the whole society. Every new religious or moral idea or sentiment, every scientific law, every invention in the arts of industry, every development of a new taste, thus proceeds from one or

more special centres of original discovery, and spreads by a well-nigh automatic process of expansion or imitation.

§ 10. Now this distinction between creation and imitation, as propounded and applied by M. Tarde, is doubtless open to serious objections. The psychology of imitation is shallow, for under this single term is covered what are in reality many different actions, while the whole conception of imitation as a process is too mechanical. To some of these defects we shall refer presently. But though, regarded as an explanation of the processes of human progress, the antithesis of creation and imitation does not satisfy, it furnishes an exceedingly useful starting point towards a psychological analysis of economic processes. For in the evolution of industry it is quite evident that improvements do come about in this manner. A comparatively small number of original or curious minds invent new uses or new ways of doing things that are better than the old, or they recognise the value of new ideas which others failed to recognise, and they have the energy and enterprise to put the new ideas into operation. Many of the inventions are not good enough or big enough; only by a considerable number of little increments of novelty will a new machine, or a new process, emerge into economic vitality, or, in business language, become profitable. But where an invention or improvement has once emerged, imitation multiplies it and it passes into general use.¹

A comparatively small number of creative or inventive minds thus undoubtedly play an exceedingly important part in the development of industry. The brief acts of thinking of a Watt,

¹ Tarde applies the same term 'imitation' to two different sorts of act. The business man or employer who recognises some improved machine or method and copies it is an imitator. Every improvement thus starting from a centre of discovery becomes diffused throughout a trade.

But the term 'imitation' is also applied to the regular work of the routine operator, who is constantly engaged in repeating some single process. Now, regarded as psychological and as economic facts, these two imitations are distinct.

The former is the adoption of a discovery involving an act of recognition and of judgment—not a purely automatic imitation—at any rate until it has become a common form in the trade. The employer who copies or adopts an improvement performs a single act—he incorporates this improvement in the technique of his mill or shop—once for all. When, however, it is said of a machine-worker that his work is imitative, something different is meant. He is continually repeating himself, each act of repetition involving less consciousness in the adaptation of means to end.

a Stevenson, a Siemens or an Edison, appear to be incomparably more productive in effect than the routine life-toil of the many thousands of workers who simply repeat hour by hour, day by day, year by year, some simple single process they have learned. It is true that invention is too narrow a term properly to express the distinction we are examining between that work which expresses the creative energy of man and that which is essentially imitative. For if a successful invention furnishes machinery or methods which thus multiply the productivity of human labour, the skilful organisation and administration of a business, the work done by the employer, has the same sort of effect. An able employer who directs his business with knowledge and foresight, gathering together just the right men, materials and machinery, producing the right goods at the right time, and marketing them properly, seems by his personal ability greatly to enlarge the valuable output of the entire business. In a big business he seems to be as productive as a thousand men.

§ 11. So a broad distinction is built up between Ability and common Labour, the creative and the merely imitative work of man. From this distinction has been drawn an ingenious defence of the current inequalities in distribution of wealth. Since all the progress of modern industry is really attributable to the ability and enterprise of a small group of inventing, organising and enterprising people, common labour being in itself no more skilful, no more productive than before, there can, it is maintained, be neither justice nor reason in the claims of labour to a larger share of that huge increase of wealth due to the ability of the few.

I do not propose just now to examine the validity of this contention. What criticism I have to offer will emerge in the course of my closer examination of the nature of industrial work. At present I will only ask readers to observe that the doctrine assumes that payment for industrial services must or ought to be determined by the productivity of those services, not by their 'cost'.

Now, our immediate enquiry, we must remember, is into human costs. And the distinction between creative and imitative work is particularly instructive in its bearing upon human costs.

For if we grade the various sorts of human effort that contribute to the production of wealth according to the amount of creative and imitative character they seem to possess, some valuable light will be thrown upon the distribution of human costs among the various classes of producers.

Leaving out of consideration Land, which, as a factor in production, involves no output of human effort, we shall find that the provision and application of all the other factors, ability, capital and labour, involve some human effort both of a creative and an imitative type and contain some elements of 'cost'.

For the purpose of this analysis I propose to classify productive activities under the following heads: Art, Invention, Professional Service, Organisation, Management, Labour, Saving. The warranty for this classification will emerge in the course of the analysis.

CHAPTER IV

THE CREATIVE FACTOR IN PRODUCTION

§ 1. The most distinctively creative kind of human work is called art. In motive and in performance it is the freest expression of personality in work. The artist in what are termed the fine arts, e. g. as painter, poet, sculptor, musician, desires to give formal expression to some beautiful, true or otherwise desirable conception, in order either to secure for himself its fuller realisation or the satisfaction of communicating it to others. It is not, however, necessary for our purpose to enter upon the exact psychology of art motives or processes. Indeed, we are not concerned with the whole range of artistic activity. So far as the artist works simply and entirely for his own satisfaction, in order to express himself to himself, he cannot be deemed to be contributing to the economic income of the nation. For us the artist is the producer of a marketable commodity, and we are concerned to discover the 'economic' and the 'human' costs which he incurs in this capacity.

Now so far as the painter, poet, or musician works as pure artist, exercising freely his creative faculty, his economic 'costs' consist merely of his 'keep', the material and intellectual consumption necessary to support him and to feed his art. The net human costs of the creative work are nil. For though all creative work may involve some pains of travail, those pains are more than compensated by the joy that a child is born. Even if we distinguish the creative conception from the process of artistic execution, which may involve much laborious effort not interesting or desirable in itself, we must still remember that these labours are sustained and endowed with pleasurable significance as means to a clearly desired end, so that the whole activity becomes in a real sense a labour of love. In other words, the human costs are outweighed by the human utility even in the processes of production, so that the pure practice of art is a net increase of

life. The artist, who, following freely his own creative bent, produces pictures, plays or novels which bring him in great gains, is thus in the position of being paid handsomely for work which is in itself a pleasure to perform and which he would do just as well if he were only paid his human 'keep'. The wasteful social economy of the ordinary process of remunerating successful artists needs no discussion. For the true art faculty resembles those processes by which Nature works in the organic world for the increase of commodities whose comparative scarcity secures for them a market value. A poet who 'does but sing because he must', and yet is paid heavily for doing so, is evidently getting the best of both worlds. Our present point, however, is that the 'economic cost' which his publisher incurs in royalties upon the sales of his poem is attended by no net 'human cost' at all, but by a positive fund of 'human utility'. And this holds of all truly creative work: the performance involves an increase of life, not that loss which is the essence of all human cost.

§ 2. I have spoken of the pure 'artist'. The artistic producer who sells his freedom to the moneyed public may incur the heaviest of human costs, the degradation of his highest quality. The temptation to incur these moral and intellectual damages is great in any nation where the dominant standard of personal success is money income and expenditure. But perhaps there is a false simplicity in the romantic view of artistic genius, which assumes that the artist and his work are necessarily degraded by inducements to work for a public, instead of working for himself alone. It may, indeed, be held that an artist who is so self-centred as to have no conscious consideration of the artistic needs and capabilities of his fellow-men, is so essentially inhuman as to be incapable of great work. The use of an art-gift for communion with others, involving some measure of conscious social direction, seems involved in the humanity of the artist. Even when that direction takes the shape of market-prices, it does not necessarily incur the violent censure bestowed by romantic persons. When a sound public taste operates, this direction may be justified. The portraits which Mr. G. F. Watts painted reluctantly for money need not be considered a waste of his powers. The nature, again, of many creative minds seems to require the application

of an external stimulus to break down a certain barrier of sterile self-absorption or of diffidence, which would rob humanity of many of the fruits of genius. At any rate it need not be assumed that working for a public, or even for a market, is essentially injurious. Where the taste which operates through the demand is definitely base, and where the practice and the consciousness of having sold one's soul for money are plainly realised, no doubt can exist. But where public sympathy and appreciation, even exercised through the market, induce the artist to subordinate some of his private tastes and proclivities to the performance of work which, though of secondary interest to himself, has a sound social value, the pressure of demand may produce a larger body of real wealth at no real human cost to the producer. Very different, of course, are the instances urged with so much passionate insistence by Ruskin, where depraved public tastes, springing directly from luxury and idleness, debauch the natural talents of artists, and poison the very founts of the creative power of a nation. *Corruptio optimi pessima*. The production of base forms of art, in painting, music, the drama, literature, the plastic arts, must necessarily entail the highest human costs, the largest loss of human welfare, individual and social. For such an artist poisons not only his own soul but the social soul, adulterating the food designed to nourish the highest faculties of man.

There is, however, a sense in which it is true that every pressure of social direction or demand upon the artist impairs the creative character of his work. For such social demand rests upon a similarity of taste among the members of a public, and its satisfaction requires the artist to repeat himself. An artist, endowed by the State or some other body, might express himself in unique masterpieces, as was the case with the great artists of antiquity or of the Renaissance who were fortunate in their private or public patrons. But art, supported by numerous private purchasers, whose social standards mould their tastes to tolerably close conformity, must stoop to qualify creation by much imitative repetition. This often involves a large human cost, imposing an injurious specialisation, mannerisms or mechanical routine. This is particularly true of arts where a refractory material gives great importance to technique, and where the

practice of this technique necessarily restricts the spontaneity of execution.

§ 3. The descent from Artist to the more or less mechanical producer of art-products is marked by many grades. There is the grade which does not pretend to any free exercise of the creative faculty, confining itself to interpretation or execution. This in music and in certain other fine arts is signified by adopting the French term 'artiste'. But some of this interpretative work affords large scope for truly creative work. A traditional or written drama, a score of music, or other necessarily imperfect and half-mechanical register of some great creative work, requires a constant process of re-creation by a sympathetic spirit. In such arts there is a genuinely creative coöperation between the original composer and his interpreters, the latter enjoying some real liberty of personal expression and giving merit to the performance by this union of reproductive and creative achievement. The great actor or musician may thus even come to use the work of the playwright or the composer as so much material for his own creative expression. He may even carry this to an excess, ousting his predecessor and parasitically utilising his reputation for the display of his own artistic qualities or defects. In painting and sculpture, of course, we come to a mode of skilled imitation, that of the copyist, where the free creative element is confined to far narrower limits. The main skill here is that of technical imitation, not of interpretation.

As we descend from the higher grades of distinctively creative art to these interpretative and more or less imitative grades, it will be evident that larger human 'costs' of production are apt to emerge. All imitation or repetition, either of oneself or of another, is not inhuman. There is a rhythm in the processes of organic life which even requires some repetition. But this repetition is never precise, for organic history does not exactly repeat itself. The attempt, therefore, to induce a person to perform an intricate process many times and at short intervals with great exactitude, is against humanity. It involves some physical and moral injury, a human cost. We shall consider the more serious effects of this procedure when we come to consider that work of industry most widely removed from art. In considering, how-

ever, the sub-artistic workers it will not be right to rate the human costs too high. A good deal of scope for personal satisfaction remains in many of these kinds of work. The sense of skill in overcoming difficulties, evoked wherever any intricate work is done by brain and hand, yields a vital joy. This the executant artist, even though mainly a copyist, experiences in no mean measure. It sustains a fine vitality, and, what is significant for our particular enquiry, it involves low human cost, unless the pace and strain of repetition are carried to excess. Wherever any reasonable scope for individual expression or achievement remains, though the main body of the product may be rigorously prescribed by close imitation, or ordered by mechanical contrivance, the art spirit lives and the human costs are low. The photographer, or even the skilled performer on the pianola, retains a larger measure of the nature and the satisfaction of the artist than a merely cursory consideration of his occupation would suggest.

A considerable and growing proportion of productive energy is given out in these various levels of artistic or creative work, and the proportion of the national income represented by this product is growing with fair rapidity in every modern civilised community.

§ 4. From the fine arts we proceed by an easy transition to the processes of discovery and invention which play so important a rôle in progressive industry and are leading channels of creative activity. The process of discovering a new relation between phenomena, establishing a new fact or a new law, has much in common with artistic creation. The scientific imagination is creative through its use of the existing material of knowledge to frame hypotheses. Indeed, the disinterested play of the mind in the explanation of facts by bringing them within the range of scientific laws, or, conversely, in extending the range of known laws to new groups of facts, is a process of adventure containing novelties of insight and of outlook akin to artistic production. Those philosophers, indeed, who hold that the laws of science are nothing other than the patterns which man imposes upon the phantasmagoria of experience for his own private ends, would make the whole of scientific discovery merely an art, differing

from the fine arts in having utility rather than beauty for its goal. But we need not press this interpretation in order to perceive the similarity of all disinterested pursuit of knowledge to the fine arts. When a mathematician speaks of a beautiful solution to a problem, he is not using the language of hyperbole, but attesting to the presence of an æsthetic emotion attendant on the mode in which a truth is reached and stated. Modern physics is full of discoveries containing some such artistic quality, e. g. the grouping of the elements in the proportions of their atomic weight which Mendelieff established, or Sir W. Ramsay's recent discovery of the relations between helium and its chemical kindred. But one need not labour the analogy between artist and scientist. For our main enquiry is into human costs, and it will be admitted that the zest of the scientific student and the joy of discovery are emotions as vital and as valuable in themselves as the emotions of the artist. So far, then, as the scientist comes within our purview as a productive agent, his activity must rank with the artist's, as yielding more human utility than cost. It may, however, be contended that the man of science seldom, as such, enters into the field of industrial productivity, save when he adds to his scientific work the rôle of inventor. With the advent of the inventor the attainment of knowledge is bent to some purpose of industrial utility. But though some definitely gainful purpose may lurk in the inventor's mind, it does not commonly impose upon his work the distinctive costs of labour. For invention, however narrowly utilitarian in its objects and results, still remains in the realm of creation, still yields the satisfaction of a production that is interesting and elevating in itself. It seems to matter little whether the inventive process is a large bold speculative handling of some problem in which the inventor is a pioneer, or whether he is engaged upon the narrower task of bringing the past inventions of many greater minds up to the level of industrial utility by some small new economy. The process of invention carries the quality of interesting novelty which from our standpoint is the badge of creative work. We shall, doubtless, be reminded at this point that history shows the path of the inventor to be almost as hard as that of the transgressor, strewn with toil and disappointments. But though a great in-

vention, like a great work of art, often conceals an arduous and painful gestation under the appearance of a spontaneous generation, too much must not be made of such a cost.

The training of a creative faculty, though like all training it involves an exercise and a discipline not pleasing in themselves, can, indeed, scarcely be regarded in our sense as a cost of labour. It is a furtherance and not a repression of personality: the practice it involves, the technique it imparts are not merely mechanical aptitudes, and they always carry in them the conscious hope of creative achievement. The education of artistic or inventive faculty involves no real wear and tear of human vitality beyond that physical waste which every prolonged occupation involves. Invention itself involves no cost. In none of these operations is the characteristic of labour present, the giving-out of some single sort of energy by constant repetition of identical acts in a narrow groove of endeavour. Such acts of labour are indeed inimical to invention: the act of invention comes commonly in times of leisure. It is the product more of play than of work, and the element of instinct, perhaps even of chance, is often a factor of success.

§ 5. M. Tarde, in his abrupt contrast between creation and imitation or labour, has dogmatised upon the rarity of the creative faculty, and certain other sociologists and politicians have busily engaged themselves in sowing fears lest the greed of organised labour or the rashness of socialistic legislation should, by robbing genius and ability of its proper rewards, tamper with the springs of industrial progress. Now, the important question of the economic reward of ability and genius may be deferred until we have ascertained more clearly what part these creative qualities play in all the different modes of productive energy. But the assumption that artistic and inventive faculty is exceedingly rare, because it has so seldom been displayed, must be boldly challenged. The studies of modern psychologists and educationists refute it. On the contrary, there is reason to believe that human nature is exceedingly rich in all sorts of variations from the normal, and that very many of these variations have valuable uses, provided that suitable conditions for their discovery, training and application are present.

The notion that genius, like murder, will 'out' is a false sentimentalism. Some men of genius do, indeed, make their way in spite of adverse circumstances, forcing themselves out of the obscurity of their surroundings: they 'break their birth's invidious bar, and breast the blows of circumstance, and grasp the skirts of happy chance.' That is to say some sorts of genius are united with qualities of audacity, persistence, and luck, which enable them to win 'through'. But how many men of genius do not possess these faculties and therefore do not emerge, it is from the nature of the case impossible to learn. But it is probable that much genius, talent, and ability, capable of yielding fine social service, is lost. Indeed it is probable that many of the finest human variations, involving unusual delicacy of feeling and perhaps of physique, will by natural necessity be incapacitated for making their way and forcing recognition amid uncongenial surroundings.

It is likely that far more human genius is lost than is saved, even in the more civilised nations of to-day. For what are the conditions of the successful utilisation of genius, and for what proportion of the population are they securely attained?

Leisure is a first condition for all free and fruitful play of the mind. Very few inventions have come from workers compelled to keep their noses to the grindstone, and unable to let their eyes and thoughts play freely round the nature of their work. This is why slavery contributed so very little to the development of the industrial arts: this is why so comparatively few inventions of importance have been made by hired labourers in this and other countries. The strongest economic plea for a shorter and a lighter working-day is that it will liberate for invention and industrial progress the latent creative energy of countless workers that is stifled under the conditions of a long day's monotonous toil.

Education is the next condition. The great mass of the population in this country have no such opportunity of education as is needed to discover, stimulate, and nourish the creative faculties in art, science, and industrial invention. One need not overrate what even the best education can do for human talent of the creative order. Indeed, the education of the schools may sometimes

rather injure than improve the finest faculties. But education can do one incomparable service to native genius or talent. By putting the sensitive mind of a young man or woman in contact with the innumerable waves of thought astir in the intellectual atmosphere around, it supplies the first essential of all creative activity, the fruitful union of two thoughts. Until all the new minds brought into the world are placed in such free contact with every fertilising current of thought and feeling, and enjoy free, full opportunities of knowing the best that has been thought and said in all departments of human knowledge, we cannot tell how much creative faculty perishes for lack of necessary nutriment.

§ 6. From artistic and inventive work which is essentially creative, enjoyable, vitally serviceable and costless, we proceed to review the regular skilled mental work of the professional and administrative classes.

The bulk of the productive energy classed as Ability comes under these heads.

It is evident that in most of this work the creative quality is blended in various degrees with imitation or routine. We pass from the more miraculous, interesting, and rapid modes of productive achievement to a lower level, where the expenditure of time and effort is greater and where the terms 'practice' and 'practitioner' themselves attest the more confined nature of the activities. There can be no doubt that the practice of law or medicine, even in its highest walks, involves a good deal of toilsome and almost mechanical routine, though the most successful practitioners generally shift the bulk of this burden on to the lower grades of the profession.

The practice called 'devilling' in the law illustrates my meaning. But every profession has its lower grades of routine workers, assistants, dispensers, nurses, clerks and others, whose sphere of liberty is closely circumscribed, and whose work, although involving some qualities of personal skill and responsibility, mainly consists in carrying out orders.

This consideration of the subsidiary professional services brings to light, however, a certain defect in the use of the antithesis between creation and imitation, regarded as an index of humanly desirable and humanly undesirable work.

Mere repetition or close routine is not the distinctive character of much of this work. The work of a private secretary, clerk, or other subordinate to a professional man or a high official, may contain much variety and novelty in detail or even in kind. The same may be true of the work of a valet or other personal attendant. It applies to all work which consists in carrying out another's orders. There may be plenty of variety and scope for skill in such work; in its initial stage, as conceived by the chief or employer, it may contain elements of creative energy. But the subordinate does not reap these elements of personal interest because the initiation of the process does not rest with him. The essentials of the work are imposed upon him by the intellect and will of another: neither the design nor the mode of execution is his own. Though, therefore, his work may not consist in mere routine, but may be widely varied, the fact that it is not properly 'his' work, the expression of 'his' personality, deprives it of all qualities of creation or achievement, save such fragments as adhere to the details that are 'left to him.' Such work may, indeed, be described as imitative, in that it consists in executing a design prescribed to him by another. But if the term imitation be required, as it is, to designate the sort of labour which consists in constant repetition of a single act or process, it would be better to mark this distinction between free agent and subordinate in a different way. The subordination of the secretary or the clerk involves the human cost of a surrender of his personal judgment and initiative. To the extent that he does this, he becomes an instrument of another's will. The extent to which this involves a human cost will vary greatly with the particular conditions, technical or personal. Where such subordination belongs to genuine education or apprenticeship, or where close sympathy and mutual understanding happen to exist between superior and subordinate, so that the mind of one is the mind of both, no human cost at all but a human utility may emerge. Or, in other cases, the technical nature of the work may involve the necessity of leaving to the subordinate a good deal of discretion and a correspondingly large field for personal expression. But where the subordinate becomes the mere tool of his master, a heavy cost is entailed. That cost is heavier indeed than in ordinary manual

routine labour, because it involves more directly the subordination of the mind and will of the worker. Part of the distaste for domestic and other closely personal service is due to the closer bondage of the whole personality that is involved in the relation. It is not so much that the work is intrinsically dull or unpleasant as that it encroaches upon personality and inhibits initiative and achievement.

§ 7. The work of the highest, most honoured and best remunerated members of the professions retains essentially the quality of personal achievement. It consists of a number of detached and usually brief acts of intellectual skill, the formation of a judgment upon the meaning or merits of a complicated case, the presentation of that judgment in advice or argument, the bringing intellectual and moral influences to bear upon some line of conduct.

In some instances, as in the argument of a difficult case in court, or the conduct of a complicated Bill in Parliament, prolonged and arduous exertion, both mental and physical, may be involved. Even where the separate acts require no prolonged output of energy, a professional career, comprising long series of such acts, may strain or exhaust the mental and physical resources even of a strong man. Though each case will be different, and will call for qualities of personal skill and judgment, interesting and agreeable in their exercise, all will fall within the limits of a special line of practice, and this specialism will wear upon the nervous system, bringing the activity under an economy of costs. The temptations of a busy and successful professional career insidiously sap the interest and joy which attend the earlier struggle, unless a man has the rare wisdom and the strength of will to limit his amount of work and income.

What is said here of the competitive professions is in large measure applicable to the official grades of the public services. The higher sorts of official work continually involve qualities of judgment and imagination, and there is little mere repetition. As one descends to the lower official levels, the routine or repetitive element increases, until one reaches a sort of official, the liberty, initiative, skill, and interest of whose work hardly exceed that of the ordinary machine-feeder in a factory. In all such dis-

tinctively routine work there is a heavy mental and even physical cost. But there is this distinction between the case of the official and of the professional man. The former is not subject to the constant drive of the competitive system and is usually relieved from the sense of insecurity and anxiety which weighs upon the mind of most professional men.

§ 8. The psychology of the entrepreneur or business man is one of great interest and complexity. If we take the ordinary activities of the manager of a well-established business in a staple trade, they do not seem to involve much in the way of high intellectual skill, imagination, or exploit—but merely a limited amount of special trade knowledge, ordinary intelligence, and common sense. He has to perform a number of little acts of calculation and decision. What we call his character, viz. honesty, reliability, sense of responsibility, really counts for more than intellect: there is little demand for constructive or creative imagination, or for high enterprise. The conduct of such a business, even on the part of its manager, though not destitute of interesting incident, involves a good deal of dull routine and even drudgery which carries a distinct 'cost' in mental wear and tear.

The subordinate officials in such business are, of course, subjected to a closer routine, though never to a merely mechanical repetition, and their working life is less affected by hopes and fears relating to the profits or loss on the half-year's working.

But a large proportion of business men work under very different conditions from these.

Most industries to-day are subjected to rapid changes in regard to instruments and methods of work, markets for materials and for finished products, wages and conditions of employment. A keen eye for novelties, a rapid judgment, long-sighted calculation, commanding character, courage in undertaking risks—these are leading notes in the modern business life.

The business man who constructs, enlarges, and conducts a modern competitive business, performs a good many functions which call for various mental and moral qualities. He must plan the structure of his business—determine its size, the sizes and sorts of premises and plant he will require, the place which he can best occupy; he must get reliable managers and assistants, and a good

supply of skilled labour of various kinds. He must watch markets and be a master of the arts of buying and selling: he must have tact in managing employees and a quick eye for improvements in methods of production and of marketing: he must be a practical financier, and must follow the course of current history so far as it affects trade prospects.

If we take the most generalised type of modern business man, the financier who directs the flow of capital into its various channels, or the capitalist who lives by managing his investments, we find the business ability in its most refined form. For these men are the general directors of economic energy, operating through joint stock enterprise.

The human costs of this work of speculation and direction are difficult to assess. Such terms as labour and industry are alien from the atmosphere of these high economic functions. At the same time the strain of excitement, and, at certain seasons, of prolonged intellectual effort and attention, the sense of responsibility for critical decisions, involve a heavy nervous wear and tear. Probably the heaviest human cost, however, is a certain moral callousness and recklessness involved in the financial struggle. For the paper symbols of industrial power, which financiers handle, are so abstract in nature and so remote from the human fates which they direct, that the chain of causation linking stocks and shares with human work and human life is seldom realised. How should the temporary holder of a block of shares in Peruvian rubber concern himself with the conditions of forced labour in the Amazon forests, or the group formed to float a foreign government loan consider the human meaning of the naval policy it is intended to finance? Except in so far as they affect the values of their holdings and the price at which they can market the shares, the human significance of the business or political enterprises which are concrete entities behind finance, has no meaning for them. These men and their economic activities are further removed from human costs and utilities than any other sort of business men. In view of the immense human consequences which follow from their conduct this aloofness is a demoralising condition.

So occult and so suspect are many of the operations of financiers

as somewhat to obscure the importance of the actual economic services they render to our industrial system. General finance is the governor of the economic engine: it distributes economic power among the various industries, allocating the capital of the saving classes to road-making, irrigation, mining, the equipment of new cities, the establishment of staple manufactures, and the supply of financial resources for various purposes of government. The finest business instincts, the most rapid, accurate, and complex powers of inference and prophecy, the best balance of audacity and caution, the largest and best-informed imagination, are needed for this work of general finance. It is intensely interesting, and exerts a fascination which is traceable to a combination of appeals. The chief field for high economic adventure, it evokes most fully the combative qualities of force and cunning; it is full of hazard and fluctuation, with large, rapid gains and losses: it neither requires nor permits close personal contact with the troublesome or sordid details of industrial or commercial life.

Such is the work of the financier and the skilled investor, who found capitalistic enterprises and deal in their stocks and shares over the whole area of the industrial world. It is the most intellectual and, in one sense, the most 'moral' of business activities, involving at once the finest arts of calculation and the fullest faith in human nature.

For finance is most closely linked with credit, and credit is only the business name for faith. When people talk of finance as if it were riddled with dishonesty, facts give them the lie. The normal honesty of finance is proved by the fact that larger and larger numbers of men and women in every country of the civilised world are coming to entrust their savings more and more to men who are personal strangers, for investment in distant countries and in businesses the exact nature of which is unknown to them, and over which they cannot hope to exercise an appreciable control. The working of the machinery of modern investment by which millions of men in England, France, and Germany have sent their savings to make railways in S. America, or to open up mines in S. Africa, or to build dams in Egypt, is the largest tangible result of modern education that can be adduced.

It implies the intellectual and moral cooperation of larger numbers of distinct personalities across wider local and national barriers than has ever occurred before in the history of the world.

§ 9. A reasonable faith in the future and a willingness to run some risk are complementary motives in this growth of financial investment. They are, however, by no means confined to operations of finance. All industry involves faith and risk-taking. Every producer who acts as a free agent conceives some good object which he thinks attainable by his work. He may be mistaken, either in conceiving wrongly, or in failing to carry out his plan. His failure may be due to want of skill or knowledge, or to adverse circumstances. In primitive societies, where a man produces mostly for his own use, the risk is less. For he may be supposed to know what he wants, how much, and when he wants it. But when he makes for others, i. e. for a market, the risks are greater. For he will not know so much about the wants of other persons as about his own. It might seem as if small local markets, in which the producer dealt exclusively with neighbours, would carry the least risk, and that the risk would expand with each expansion of the market area. But this is not commonly the case. As a rule, there is less risk for the producer serving a large market, the individual members of which he does not know, than a small market of his neighbours. For the fluctuations of aggregate demand will be smaller in the larger market, and though he will know less about the individual contributions to its supply and its demand, his risk of failing to effect a sale, when he desires to do so, will usually be less. This at any rate applies to most standard trades.

Since effective access to large markets implies a fairly large business, the economy of risk becomes one of the economies of capitalism, and its calculation a chief branch of the employer's skill. The watching of the market so as to reduce the waste of misdirected production is the most delicate of the intellectual activities of most managers. It takes him outside the scope of his own business and the present process of production, to consider the whole condition of the trade in the present and the probable future. These calculations and acts of judgment issuing from the brain of business managers are the psychical aspect

of the whole structure of markets and of the trade and traffic arrangements which give such unity and order as are visible in what is termed the industrial system.

Thus, not merely on the financial but on the commercial side, industry is perceived to be a great fabric of beliefs and desires. Though, as we shall recognise, in dealing with labour, and with saving, risk-taking is by no means confined to employers and entrepreneurs, its wider operations belong to the speculative skill which comes under the general head of ability of management. In the psychological interpretation of industry this function of the entrepreneur is of quite crucial significance, cooperating everywhere with the more abstract calculations of financiers in directing the amounts, kinds, and directions, of the various currents of industrial energy which move in the business world. Since it involves a constant use of the constructive imagination in the interpretation of the play of changing motives in many minds, and the forecasting of future conditions which can never be a mere repetition of the past, the 'creative' faculty obtains here its highest expression. It is not for nothing that the great modern master either of finance or industry is accredited with some quality of imaginative power akin to that of the artist. This, however, must in not a few instances imply, not merely the genius of the prophet, but that of the skilled manipulator of economic material and opportunity, who helps to secure the due fulfilment of the prophecies upon which he stakes his faith.

NOTE

The collapse of all reasonable faith in the processes of finance and investment is one of the most tragic aspects of the world-depression which began in 1929. Swift and unpredictable changes in prices and in profits have paralysed the ordinary operations of the financier and the entrepreneur. Risk-taking and forecasting have become too perilous in view of the misconduct of monetary standards.

CHAPTER V

THE HUMAN COSTS OF LABOUR

§ 1. The classical Political Economy of this country gave to Labour a rôle of supreme importance in the production of wealth. From Adam Smith, Ricardo, and other authoritative exponents of the new 'science' many passages can be cited to support the thesis that labourers are the only producers. Nor does it appear that in these utterances Labour was usually intended to include the services of organisation and management or other intellectual activities. Wealth is baldly attributed to Labour in the sense that the manual labour, which extracts raw materials from the earth, shapes and composes them, and carries them from one place to another, alone counts as a cost of production. It is natural enough that the scientific socialism of Europe should have accepted and enforced this doctrine. Though the more intelligent socialists and 'labour men' admit the necessary work of superintendence and other mental work as useful and productive, the materialism prevalent in the business world tends to relegate to a quite secondary place all the higher forms of intellectual and moral activity.

It was upon the whole, indeed, a sound instinct which thus led the early theorists to use language which attributed to manual labour the real burden of the 'costs' of production. For closer investigation attests the force of the distinction between the productive energy given out by the intellectual, the directing, and administrative classes on the one hand, and by the labouring-classes on the other. Moreover, the social as well as the economic cleavage is so distinctive a feature of our life that it would be inconvenient to ignore it. The cleavage will be found to correspond pretty accurately to the distinction between the creative and the imitative functions which we provisionally adopted for a starting point in our analysis.

For most of the productive energy given out by the artistic, inventive, professional, official, and managerial classes, which have passed under our survey, is seen to be in large measure creative, varied, interesting, and pleasurable.

Now in the labour of the wage-earning classes these qualities are generally lacking. Alike in motives and in methods, the contrast is clearly marked. The mind of the artist or the inventor, even of the professional man or the administrator, is occupied with the work in hand, as an object of interest and of desirable achievement. The nature of the work and the conditions of remuneration conduce to fix his immediate thoughts and feelings on the performance of his work. With the labourer it is different. The conditions of most labour are such that the labourer finds little scope for thought and emotional interest in the work itself. Its due performance is hardly an end to him, but only a means to a livelihood consisting in the consumable commodities got in payment for his labour.

But the vital distinction is in the nature and method of the work done. Whereas the artistic or inventive, or even the professional man, is constantly doing something new, the labourer continually repeats the same act or set of acts, in order to produce a number of similar products. The success of most labour consists in the exactitude and pace with which this repetition can be carried on. The machine-tender is the typical instance. To feed the same machinery with the same quantity of the same material at the same pace, so as to turn out an endless number of precisely similar articles, is the absolute antithesis of art. It is often said that the man who feeds such a machine tends to become as automatic as the machine itself. This, however, is but a half-truth. If the tender could become as automatic as the machine he tended, if he could completely mechanise a little section of his faculties, it might go easier with him. But the main trend of life in the man fights against the mechanising tendency of his work, and this struggle entails a heavy cost. For his machine imposes a repetition of the same muscular and nervous action upon a being whose muscles and nervous resources are continually changing. The machine, fed constantly with the same supply of fuel, geared up to a single constant pace of movement, forced by

unchanging structure to the performance of the same operation, friction and error reduced to an almost negligible minimum, works through the longest day with a uniform expenditure of power. The machine-tender is an organism, fed at somewhat irregular intervals with different amounts and sorts of food, the assimilation of which is also discontinuous, and incapable of maintaining intact and constant in its quantity the muscular and nervous tissue and the accompanying contractions which constitute the physical supply of 'work'. This organism has also many other structures and functions, physical and mental, whose activities and needs get in the way of the automatic activity of machine-tending. Thus the worker cannot succeed in becoming altogether a machine-tending automaton. He will not always exactly repeat himself, and his attempt to do so involves two sets of organic costs or wastes, due to the fact that, though his labour tries to make him a specialised mechanism, he remains a generalised organism.

So far as labour consists in specialised routine, absorbing the main current of productive energy, it is the enemy of organic health. It is hostile in two ways, first, in denying to man opportunity for the exercise of his other productive faculties, secondly, in overtaxing and degrading by servile repetition the single faculty that is employed.

As the artist presents the supreme example of creative work, with a minimum of human costs and a maximum of human utility, so the machine-tender presents the supreme example of imitative work, with a maximum of human costs and a minimum of human utility.

§ 2. Some particular consideration of these costs of machine-tending will be the best approach to a more general survey of the human costs of labour.

The indictment of the dominion of machinery by Ruskin, Morris, and other humanist reformers, was primarily based upon the degradation of the worker's manhood by denying him the conditions of good work. 'It is a sad account,' said Ruskin, 'for a man to give of himself that he has spent his life in opening a valve, and never made anything but the eighteenth part of a pin.' But, important as is this charge of degraded and joyless

work, we must begin our analysis of the costs of mechanical or factory labour at a lower level.

From the great body of the factory labour which goes to the provision of our national income, the first great human cost that emerges is the burden of injurious fatigue which results from muscular or nervous overstrain, and from the other physical and moral injuries which are the natural accompaniments of this overstrain.

Modern physiology and pathology have done much to give plain meanings to these costs. Physical fatigue is not of necessity an injury to the body, nor is all feeling of fatigue a pain. The ideally correct conduct of the organism may, indeed, appear to preserve an exact and a continuous balance between the anabolic and the catabolic, the nutrition of cell life and the expenditure in function. Sir Michael Foster gives the following classical description of this process.¹

'Did we possess some optic aid which should overcome the grossness of our vision, so that we might watch the dance of atoms in this double process of making and unmaking in the human body, we should see the commonplace living things which are brought by the blood, and which we call the food, caught up into and made part of the molecular whorls of the living muscle, linked together for awhile in the intricate figures of the dance of life; and then we should see how, loosing hands, they slipped back into the blood, as dead, inert, used-up matter. In every tiny block of muscle there is a part which is really alive, there are parts which are becoming alive, there are parts which have been alive but are now dying or dead; there is an upward rush from the lifeless to the living, a downward rush from the living to the dead. This is always going on, whether the muscle be quiet and at rest, or whether it be active and moving. Some of the capital of living material is always being spent, changed into dead waste, some of the new food is always being raised into living capital.

'Thus nutritive materials are carried by the blood to the tissues, and the dead materials of used-up and broken-up tissues are carried away for destruction or ejection. Under normal conditions of healthy activity this metabolic balance is preserved

¹ *Weariness*, the Rede Lecture, Cambridge, 1893.

by the alternation of work and repose, the tissue and energy built up out of food during periods of rest forming a fund for expenditure during periods of work, while the same periods of rest enable the destructive and evacuative processes to get rid of any accumulation of dead tissue due to the previous period of work. Abnormally intense or unduly prolonged activity of any portion of the body uses up tissue so fast that its dead material cannot be got rid of at the proper pace. It accumulates in the blood or in the kidneys, liver or lungs, and operates as a poison throughout the whole system. Over-fatigue thus means poisoning the organism.

'The poisons are more and more heaped-up, poisoning the muscles, poisoning the brain, poisoning the heart, poisoning at last the blood itself, starting in the intricate machinery of the body new poisons in addition to themselves. The hunted hare, run to death, dies not because he is choked for want of breath, nor because his heart stands still, its store of energy having given out, but because a poisoned blood poisons his brain, poisons his whole body.'¹

The Italian biologist Mosso has demonstrated that the depressing effect of fatigue is not confined to the local centre where it is produced, but is carried to all parts of the body. When the blood of a dog fatigued by continued running is injected into the vessels of a sound dog, the latter exhibits all the signs of fatigue. The inability of the system to dispose of the used-up tissue, which thus accumulates and poisons the system, is one injurious factor in fatigue. Another is the undue depletion of the stores of glycogen and oxygen, which the organism provides for the output of muscular activity. Glycogen is a compound of carbon, hydrogen, and oxygen made by muscle tissue out of the sugar or dextrine supplied to it by the blood. 'The stored glycogen of the muscles keeps uniting chemically with the oxygen of the blood. The glycogen is broken down into a simpler chemical form, giving off the gas carbon dioxide and other acid wastes, and releasing heat and mechanical energy in the process. With the released energy contraction of the muscles takes place and hence ultimately the industrial labour which is our special theme.'²

¹ Foster. *Op. cit.*

² Goldmark, *Fatigue and Efficiency*, p. 22.

'Glycogen is, as it were, stored for use. It is always being replenished, always being depleted. . . . But when the muscle is active and contracts energetically, there is a run upon our glycogen. It is used up faster than it is built in muscle. The glycogen is spent so rapidly that there is not time for the blood-stream to bring back to the tissue the potential material for its repair.'¹ Though the liver furnishes an extra store of glycogen, this too may be depleted by undue muscular activity.

'Thus we have reached the other fundamental factor in fatigue—the consumption of the energy-yielding substance itself. Not only does tissue manufacture poison for itself in the very act of living, casting off chemical wastes into the circling blood-stream; not only are these wastes poured into the blood faster with increased exertion, clogging the muscle more and more with its own noxious products; but, finally, there is a depletion of the very material from which energy is obtained. The catabolic process is in excess of the anabolic. In exhaustion, the organism is forced literally to "use itself up".'²

§ 3. So much for the physiological meaning of muscular fatigue. Closely associated with muscular fatigue is nervous fatigue. For every voluntary muscular action receives its stimulus from a nervous centre. Though the nature of this nervous energy, accumulated in the central nervous system and distributed in stimuli, is not well understood, its economy is gravely disturbed by conduct involving heavy muscular fatigue, as well as by work of a mental kind involving heavy drains on its resources. A process of building up, storage, and dissipation of nerve tissue and energy-yielding material, corresponding to that which we have traced for muscle tissue, must be accepted as taking place. Fatigue of the nervous system will thus be attended by a similar accumulation of poisonous waste products, and an excessive consumption of substances needed for the maintenance of nervous activity.

Though physiologists are not agreed as to how and when fatigue acts on the nervous cells, there is no question of the reality and of the importance of this injury of excessive work to 'the administrative instrument of the individual' which 'directs,

¹ Goldmark, p. 22.

² Ibid, p. 23.

controls and harmonises the work of the parts of the organic machine and gives unity to the whole.'

Still confining our attention to purely physical conditions, we learn that work done in a state of muscular fatigue involves an increase of nervous effort.

'Mosso showed that a much stronger electric stimulus is required to make a wearied muscle contract than one which is rested. He devised an apparatus, the ponometer, which records the curve of nervous effort required to accomplish muscular action as fatigue increases. He showed that the nerve centres are compelled to supply an ever stronger stimulus to fatigued muscles.'¹

Professor Treves at Turin throws further light upon the relations between the muscular and the nervous economy. It is well known that in muscular activity there is an opening period during which efficiency, or practical response to nervous stimulus, increases. Before fatigue begins to set in, the muscle appears to gain strength, its working power being actually augmented. This period of maximum efficiency continues for an appreciable time, then fatigue advances more and more until muscular contraction refuses any longer to respond to even a heightened nervous stimulus. This, of course, is also an epitome of the course of organic life itself, its rise towards maturity, its level of maximum power and its decline.

Now training or practice can notoriously affect this natural economy. The muscular system, or some part of it, can by practice accommodate itself to increasing quantities of fatigue-poisons, and can draw from the general organic fund a larger quantity of material for repair of local muscular tissue and energy. But it has long been recognised that some real dangers attach to this excessive specialisation of muscular activities. The pathological nature of over-training in athletics has its plain counterpart in industry. This, according to Professor Treves, lies in the failure of the supply of nervous energy to rise in proportion to the requirements for this higher pressure upon the muscular tissues.

'According to my experience, it has not been found that training has as favourable an effect upon [nervous] energy as upon

¹ Goldmark, p. 33.

muscular strength. . This fact explains why muscular training cannot go beyond certain limits and why athletes are often broken down by the consequences of over-exertion. And this fact teaches also the practical necessity of preventing women, children, and even adult men from becoming subjected to labour, which, indeed, a gradual muscular training may make possible, but at the price of an excessive loss of nervous energy which is not betrayed by any obvious or immediate symptoms, either objective or subjective.¹

A series of experiments has been directed to the more detailed study of the relations between activity and repose. Their general result is to prove that muscular work, done after fatigue has set in, not only costs more nervous effort but accomplishes less work. The ergograph, an instrument for measuring work, yields ample testimony to the recuperative effect of rest taken before exhaustion is reached, on the one hand, and the rapid rate of decline in achievement when activity is continued after the fatigue point has been reached.

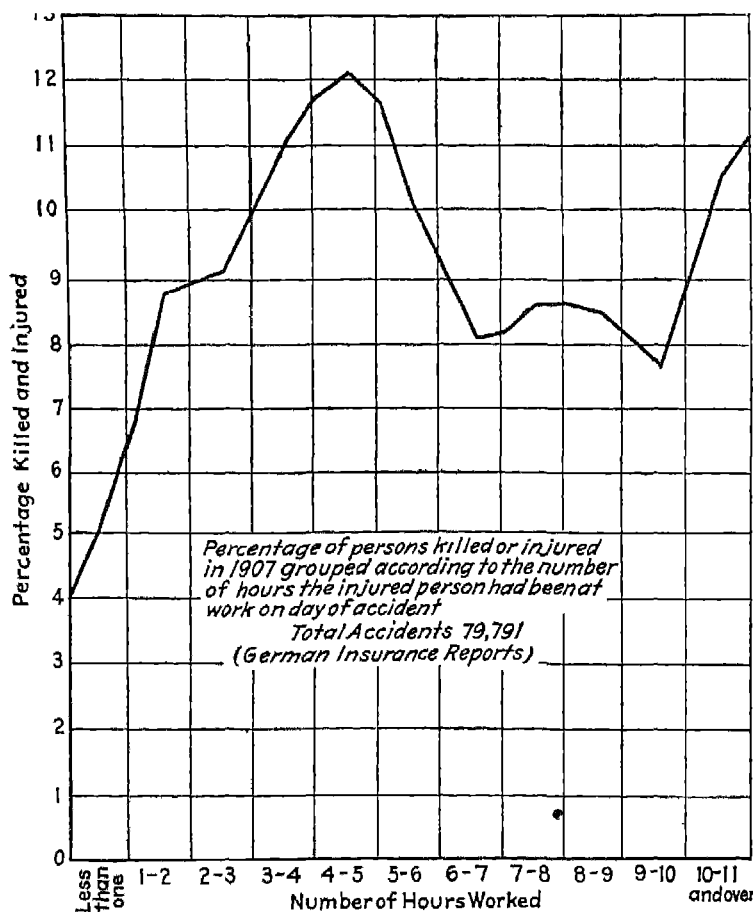
§ 4. To this account of the physical costs of excessive work in muscular and nervous waste must be added the greater liability to accidents and the greater susceptibility to industrial and non-industrial diseases which fatigue entails.

The statistics of industry in various countries prove that fatigue is a very important factor in industrial accidents. Though fatigue is not always proportionate to duration of work, the number of hours worked without intermission is usually a valid index of fatigue. After a long stint of work the attention of the worker and his muscular control are both weakened. We find, therefore, a marked similarity in the curves relating accidents to hours of labour, accidents increasing progressively up to the end of the morning's work, and again in the late afternoon as the day's work draws to its close. Recent German statistics show that the highest rate of accidents is during the fourth and fifth hours of morning work.

That over-fatigue connected with industry is responsible for large numbers of nervous disorders is, of course, generally admitted. The growing prevalence of cardiac neurosis and of neu-

¹ Goldmark, p. 37.

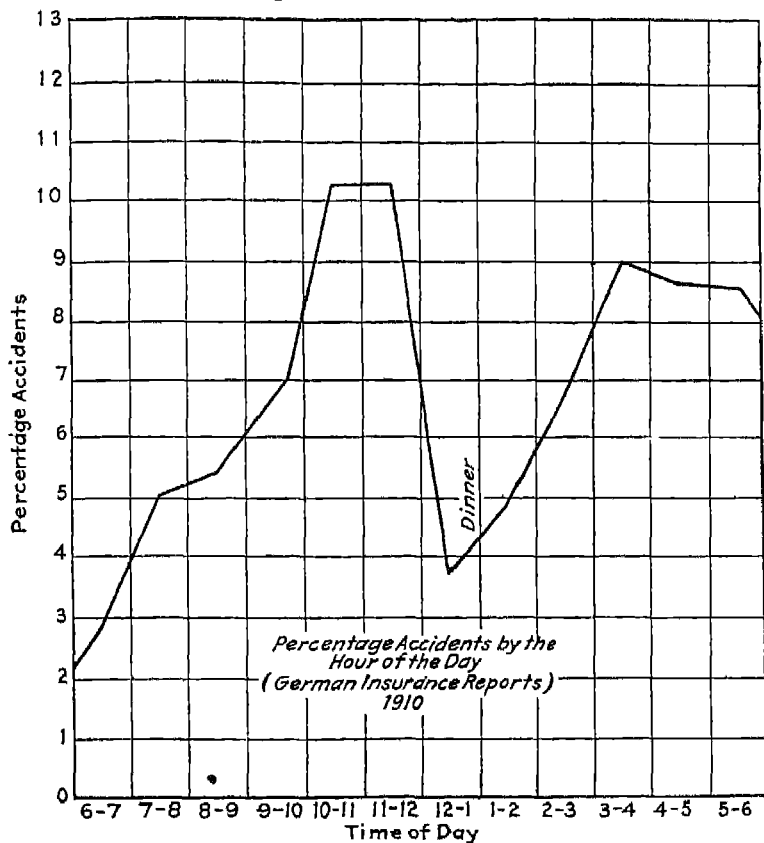
raesthesia in general among working-people is attested by many medical authorities, especially in occupations where long strains of attention are involved. But the general enfeeblement and



loss of resistance power to disease germs of all kinds are even more injurious consequences of over-exertion. Many experiments attest the fact that fatigue reduces the power of the blood to resist bacteria and their toxic products.

§ 5. So far I have dwelt exclusively upon the physiological

nature and effects of fatigue as costs of labour. But due account must also be taken of the psychical or conscious costs. Much work in its initial stage contains elements of pleasurable exercise of some human organ or faculty, and even when this pleasure has worn off a considerable period of indifference may ensue. Though



boredom may set in before any strain of fatigue, the earlier period of ennui may not entail a heavy cost. But, when fatigue advances, the irksomeness brings a growing feeling of painful effort, and a long bout of fatigue produces as its concomitant a period of grave conscious irritation of nerves with a subsequent period of painful collapse. Where the conditions of work are

such as to involve a daily repetition of this pain, its accumulative effect constitutes one of the heaviest of human costs, a lowering of mentality and of moral resistance closely corresponding to the decline of physical resistance. Drink and other sensational excesses are the normal reactions of this lowered morale. Thus fatigue ranks as a main determinant of the 'character' of the working-classes and has a social significance in its bearing upon order and progress not less important than its influence upon the individual organism.

§ 6. I have dwelt in some detail upon these phenomena of fatigue, because they exhibit most clearly the defects of the working life which carry heaviest human costs. These defects are excessive duration of labour, excessive specialisation, excessive repetition, excessive strain and excessive speed. Though separate for purposes of analysis, these factors closely interact. Mere duration of labour does not necessarily involve fatigue, provided it carries the elements of interest, variety, and achievement. The degree of specialisation or subdivision of labour counts on the whole more heavily. But even a high degree of specialisation is alleviated, where it contains many little changes of action or position, and affords scope for the satisfaction attending expert skill. It is the constant repetition of an identical action at a prescribed pace that brings the heaviest burden of monotony.

It is upon this combination of conditions that the first count against the dominion of machinery is based. The brief physiological consideration we have brought to bear upon the problem of fatigue gives clearer significance to monotony as a 'cost'. It implies, not merely a dull and distasteful occupation, but one which, taxing continually the same muscles and the same nerve-centres, increases the poison of fatigue. Hand labour of a narrow order, or machine-tending however light, entails this heavy cost, if maintained over a long period of time.

But where monotonous repetition is closely directed by the action of a machine, as regards its manner and its pace, there is a special nervous cost. For a hand-worker, however dull or heavy is the work, retains some slight power of varying the pace and perhaps of changing his position or mode of work. A worker who either feeds a machine or adjusts his movements in obedience

to those of a machine, as for instance a cutter in the clothing trade or in shoemaking, has no such liberty. The special cost here entailed is that of trying to make an organism conform in its movements to a mechanism. Now a human being, or any other organism, has certain natural rhythms of movement for work, related to the rhythms of heart and lungs and other organic processes, and there are natural limits also to the pace at which he can efficiently, or even possibly, continue working. A machine also has rhythms and a maximum efficiency pace. But the rhythms of a machine are determined by its mechanical construction and the apparatus which furnishes its power: they are continuously uniform, and are capable of being speeded up beyond the capacity of the human tender.

A human rhythm is really labour-saving, in as much as it eases the strain to work in accordance with a natural swing. To set a man to follow the rhythm of a machine not only loses this economy, but entails an extra effort of conformity. The tendency to speed up a machine, so as to get the most out of it, is liable to take out of the machine-tender even more than he is capable of recognising in the way of nervous strain. Where considerable muscular activity is also required in following a high pace set by a machine, an appalling burden of human costs may be accumulated in a factory day.

When to such direct human costs of labour are added the risks of industrial accident or of industrial diseases, the physical injuries involved in bad atmosphere, heat, noise and other incidental pains and inconveniences which beset many branches of industry, we begin to realise with more distinctness the meaning of 'costs of labour' in the human as distinguished from the economic sense.

Later on we shall turn to consider how far the economic or monetary 'costs' correspond with these human costs.

Our present task, however, is to conduct a brief survey of general industry in order to form some idea of the magnitude of these human costs in the leading branches of production, and to consider how far they are offset or qualified by factors of human interest or utility, such as we found widely prevalent in the work of the artistic, official, and administrative classes.

CHAPTER VI

THE REIGN OF THE MACHINE

§ 1. If it were true that all the labour of the wage-earning classes which went to produce the real national income were, or tended to become, monotonous and highly specialised machine tending, the workers constantly engaged in close repetition of some single narrow automatic process, contributing to some final composite product whose form and utility had no real meaning for them, the tale of human costs would be appalling.

Fortunately this is not the whole truth about labour. Even the charge against machinery of mechanising the worker is frequently overstated. The only productive work that is entirely automatic is done by machines. For the main trend of the development of industrial machinery has been to set non-human tools and power to undertake work which man could not execute with the required regularity, exactitude, or pace, by reason of certain organic deficiencies. While, then, the sub-divided labour in most staple industries is mostly of a narrowly prescribed and routine character, it is hardly ever so completely uniform and repetitive as that done by a machine. Purely routine work, demanding no human skill or judgment is nearly always undertaken by machinery, except where human labour can be bought so cheap that it does not pay to invent and apply machinery so as to secure some slightly increased regularity or pace of output. Where, then, as in most modern factories, human labour coöperates with, tends and feeds machinery, this human labour is of a less purely repetitive character than the work done by the machines. Some portions of the labour, at any rate, contain elements of skill or judgment, and are not entirely uniform.

We can in fact distinguish many kinds and grades of human coöperation with machinery. In some of them man is the habitual servant, in others the habitual master of the machine; in others, again, the relation is more indirect or incidental. Though

an increasing number of the processes in the making and moving of most forms of material goods involves the use of machinery and power, they do not involve, as is sometimes supposed, the employment of a growing proportion of the workers in the merely routine labour of tending the machines. Such a supposition, indeed, is inconsistent with the primary economy of machinery, the so-called labour-saving property. It might, indeed, be the case that the machine economy was accompanied by so vast an increase of demand for machine-made goods, that the quantity of labour required for tending the machines was greater than that formerly required for making by hand the smaller quantity. In some trades this is no doubt so, as for instance in the printing trade, and in some branches of textile industry where the home market is largely supplemented by export trade. But the displacement of machine-tenders by automatic machines is advancing in many of the highly-developed machine industries. The modern flour or paper mill, for instance, performs nearly all its feeding processes by mechanical means while in the textile trade automatic spindles and looms have reduced the number and changed the character of the work of minders. More and more of this work means bringing human elements of skill and judgment and responsibility to bear in adjusting or correcting the irregularities or errors in the operations of machinery. Machines are liable to run down, become clogged, break, or otherwise 'go wrong'. These errors they can often be made to announce by automatic signals, but human care is needed for their correction. This work, however monotonous and fatiguing to muscles or nerves, is not and cannot be entirely repetitive.

In many other processes where the machine is said to do the work, human skill and practice are required to set and to regulate the operations of the machine. The use of automatic lathes is an instance of coöperation in which some scope for human judgment remains. The metal and engineering trades are full of such instances. Though machinery is an exceedingly important and in many processes a governing factor, it cannot be said to reduce the labour that works with it to its own automatic level. On the contrary, it may be taken as generally true that, in the processes where machinery has reached its most complex development, an

increased share of the labour employed in close connection with the machinery is that of the skilled engineer or fitter rather than of the mere tender. The heaviest and the most costly labour in these trades is usually found in the processes where it has not been found practicable or economical to apply machinery. Indeed, the general tendency, especially noticed in America, in the metal trades, has been to substitute for a large employment of skilled hand labour of a narrowly specialised order, a small employment of more skilled and responsible supervisors of machinery and a large employment of low-skilled manual labour in the less mechanical departments, such as furnace work and other operations preparatory to the machine processes.

§ 2. Though accurate statistics are not available, it appears that in this country the proportion of the working population employed in manufactures is not increasing, and it is more than probable that an exact analysis of the nature of the work of our factories and workshops would show that the proportion engaged in direct attendance on machinery was steadily falling.

For even in manufacture, the department of industry where machine processes have made most advance, there are many processes where hand labour is still required, in sorting and preparing materials for machinery, in performing minor processes of trimming or decoration, in putting together parts or in packing, etc. Where female labour is employed, a very large proportion of it will be found to be engaged in such processes outside the direct dominion of machinery. Though most of the distinctively human 'costs' of machine processes, the long hours, high pace, monotony of muscles and nerve strain, are usually present in such work, it is not absolutely mechanical, some slight elements of skill and volitional direction being present.

There are other restrictions upon the purely repetitive or routine character of manufacture. There is much work which no machine can be invented to do because of certain inherent elements of irregularity. Most of these are related to the organic nature of some of the materials used. Where expensive animal or vegetable products require treatment, their natural inequalities often render a purely mechanical operation impossible or

wasteful. The killing, cutting, and canning processes in the meat trade, the picking, preparation and packing of fruit, many processes in the tanning and leather trade, the finer sorts of cabinet-making, are examples of this unadaptability of organic materials to purely mechanical treatment. Where very valuable inorganic materials are used in making high-grade products, similar limitations in the machine economy exist. The finest jewellery and watch-making still require the skill and judgment of the practised human hand and eye. Some of the irregularities in such processes are, indeed, so small and so uninteresting as to afford little, if any, abatement of human costs; but they remove the labour from the direct control of a machine.

A more important irregularity which restricts machinery in manufacture exists where the personal needs or taste of the consumer help to determine the nature of the process and the product. Here again we are confronted by the antagonism of mechanism and organism. For the true demand of consumers is the highest expression of the uniqueness which distinguishes the organic. As no two consumers are exactly identical in size, shape, physical or mental capacities, tastes and needs, the goods required for their consumption should exhibit similar differences. Machine economy cannot properly meet this requirement. It can only deal with consumers so far as their human nature is common: it cannot supply the needs of their individuality. So far as they are willing to sink their differences, consenting to consume large quantities of goods of identical shapes, sizes and qualities, the machine can supply them. But since no two consumers are really identical in needs and tastes, or remain quite constant in their needs and tastes, the fundamental assumption of routine-economy is opposed to the human facts.

Consumers who refuse to sink their individuality and are 'particular' in the sort of clothes they wear, the sort of houses and furniture and other goods they will consent to buy, exercise a power antagonistic to routine labour. They demand that producers shall put out the technical skill, the care, taste and judgment required to satisfy their feelings as consumers. That is to say, they demand the labour not of the routine-worker but of the craftsman, work which, though not creative in the full free ar-

tistic sense, contains distinct elements of human interest and initiative.

§ 3. The presence and the possibilities of this individuality of labour, flowing from the educated individuality of consumers, are a most important influence in the lightening of the human costs of labour. At present no doubt a very small proportion of the material goods turned out by the industrial system contains any appreciable element of this individuality of workmanship. It may, indeed, well appear that our recent course during the development of the machine economy has been a retrograde one. In the beginnings of industry it appeared as if there were more scope for the producer's self-expression, more joy of work, more interest in the product, even though destined for the commonest uses. The guilds in the Middle Ages preserved not a little of this happier spirit of craftsmanship. To those who brood upon these visions of the past, our modern industrial development has often seemed a crude substitution of quantity of goods for quality, the character of labour deteriorating in the process. With the element of truth in such a judgment is mingled much falsehood. There has never been an age or a country where the great bulk of labour was not toilsome, painful, monotonous, and uninteresting, often degrading in its conditions. Bad as things are, when regarded from the standpoint of a human ideal, they are better for the majority of the workers in this and in other advanced industrial countries than ever in the past, so far as we can reconstruct and understand that past. Machinery has rendered a great human service by taking over large masses of heavy, dull, and degrading work. When fully developed and harnessed to the social service of man, it should prove to be the great liberator of his free productive tastes and faculties, performing for him the routine processes of industry so that he may have time and energy to devote himself to activities more interesting and varied.

The uniqueness of the individual consumer has only begun to make its impression upon industry. For it needs liberty and education for a man to recognise this property of organic uniqueness and to insist on realising it. The first movements of conscious tastes in a nation or a class are largely imitative, taking

shape in fashions sufficiently wide-spread and uniform to lend themselves to routine mechanical production. The self-assertion of the individual is a slower fruit of culture. But, as it grows, it will offer a continually stronger opposition to the dominion of mechanical production. It will do this in two ways. In the first place, it will cause a larger proportion of demand to be directed to the classes of products, such as intellectual, æsthetic, and personal services, which are by their nature less susceptible of mechanical production. In the second place, weakening the traditional and the imitative factors in taste and demand, it will cause consumption, even of the higher forms of material commodities, to be a more accurate expression of the changing needs and tastes of the individual, stamping upon the processes of production the same impress of individuality.

But though the direct control of machinery over human labour is obstructed in the earlier extractive processes by the refractory uneven nature of materials, and in the final processes by the nature and particular requirements of consumers, its influence extends far beyond the middle processes of manufacture where its prominence is greatest. Power-driven machinery plays a larger part in agriculture every year: mining is the first of machine industries in the sense that it employs the largest amount of horsepower per man; the transport trade by sea and land is mechanised even in its minor local branches; the great public services, supplying light, water, and other common wants, are among the largest users of power-driven machinery; the greatest of our material industries which still depends mainly upon hand labour, the building and road-making group, is constantly increasing its dependence on machinery for its heavier carrying work and for the preparation of the metal, stone and woodwork it employs. When we add the growth of new large manufactures, such as chemicals and electrical apparatus, the enormous expansion of the paper and printing trades under the new mechanical conditions, the recent transference of the processes of the preparation of foods and drinks and laundry work from the private house to the factory, we shall recognise that the net influence of machinery, as determining the character of human labour, is still advancing with considerable rapidity.

§ 4. It is not easy to answer the two related questions, 'How far is machinery the master, how far the servant, of the workers who coöperate with it?' 'How far does machinery aggravate, how far lighten the human costs of labour?' Even when we compare the work of the classes most subservient to machinery, the feeders and tenders in our factories, with the domestic or earlier factory processes under hand labour, it is by no means self-evident that the net burden of the human costs has been enhanced. For, though the spinning and weaving work before the industrial revolution had certain slight elements of freedom and variety now absent, many of the hygienic conditions were far worse, the hours of labour were usually longer, and the large employment of old folk and tender children, in work nearly as unvaried as that enjoined by modern machinery, enslaved the entire life of the home and family to the narrow and precarious conditions of a small local trade. The real liberty of the worker, as regards his work, or its disposal in the market, was hardly greater than in the modern factory.

In most of the great branches of production, machinery is rather an adjunct to labour than a director. The labourer in charge of the machine tends more to the type of the engineer than to that of the feeder or mere minder. Though the mining, metal, chemical, paper, food and drink manufactures contain large quantities of machinery, a large proportion of those who have to deal with the machines are skilled manual labourers. So in the transport trade, though the displacement of the old-time sailor by the engineer and stoker, of the horse-driver by the engine-driver and the motor-man, sometimes appears to involve a degradation of labour, the issue is a doubtful one, if all the pros and cons are taken into due account. As regards the employment of machinery in the building and contracting trades, as in the mining, its first and obvious effect has been to relieve human labour from much of the heaviest muscular toil. Though most of such labour involves too slight elements of interest or skill greatly to alleviate the physical fatigue, it cannot be said that machinery has increased the burden.

CHAPTER VII

THE DISTRIBUTION OF HUMAN COSTS

§ 1. In endeavouring to estimate the human costs of labour in terms of physical wear and tear and the conscious pains and penalties entailed by the conditions under which many industrial processes are carried on, we have hitherto considered these costs as borne by workers, irrespective of age, sex, or other discriminations. But it is self-evident that a given strain upon muscles or nerves over a period of time will vary greatly, both in the organic cost and in the conscious pain which it entails, according to the strength and endurance, nervous structure, physical and moral sensitiveness, of the different sorts of workers. Indeed, a given output of productive energy will evidently entail a different human cost in every person called upon to give it out: for every difference of strength, skill, capacity and character must to some extent affect the organic burden of the task.

In endeavouring, therefore, to relate the human to the economic costs of production of any quantity of material wealth or services, it would be necessary to consider how far the conditions of employment tend to economise human costs by distributing the burden proportionately to the power to bear it. The human wastes or excessive costs, entailed by conditions of employment which impose unequal burdens upon workers with equal capacity to bear them, or which distribute the burden unequally in time over the same set of workers, alternating slack periods with periods of excessive over-time, are obvious. Unfortunately the operation of our industrial system has not hitherto taken these into sufficient account. Though the physical, moral and social injuries, due to alternating periods of over and under work, are generally admitted, the full costs of such irregularity, human and even economic, are far from being adequately realised. While some attempts at 'decasualisation' are being made, the larger

and more wasteful irregularities of seasonal and cyclical fluctuations are still regarded as irremediable. By the workers themselves and even by social reformers, the injury inflicted upon wages and the standard of living by irregularity of employment is appreciated far more adequately than the related injury inflicted on the physique and morale of the worker by sandwiching periods of over-exertion between intervals of idleness.

This brief survey, however, is no place for a discussion of the causes and remedies of irregular employment. It must suffice to note that over a large number of the fields of industry the excesses and defects of such irregularity prevail to an extent which adds greatly to the total human cost of the products. So far as our nation is concerned, there is no reason to hold that this waste is increasing. Evidence of hours of labour and of unemployment, indeed, appear to indicate that it is somewhat diminishing. But the unequal time-distribution of human costs must continue to rank as a great enhancement of the aggregate of such costs.

§ 2. But not less injurious than the unequal treatment of equals, is the equal treatment of unequals. The bad human economy of working immature children is a lesson which even the most 'civilised' nations have been exceedingly slow to learn. The bad human economy of working old persons of declining vigour, when able-bodied adult labour is available, is so far from being generally recognised that employers are actually commended on the ground of humanity for keeping at labour their aged employees, when younger and stronger workers are available. Fortunately, the larger provision for retiring pensions attests the growing recognition of this aggravation of the human costs of industry. In both cases alike, the employment of the young and of the old, the error arises from a short-sighted view of the interests of the single person or his single family, instead of a far-sighted view of the welfare of the community. It is often a source of immediate gain to a working-class family to put the children out to wage-earning as early as possible, and to keep old people working as long as they can get work to do. It does not pay the nation, even in the economic sense, that either of these things should be done. The case of child-labour is, of course, the more serious, in that it evidently entails not merely a wasteful strain upon

feeble organisms, but an even heavier future cost in stunted growth and impaired efficiency throughout an entire life.

When the play of current economic forces places upon women work which men could perform more easily, or creates women's industries with conditions of labour involving excessive strains upon the organism, the double human costs are even heavier. For if excessive fatigue or nervous strain affects a woman as worker, the injurious costs are likely to be continued and enhanced through her capacity for motherhood. To use up or damage its women by setting them to hard wage labour in mill and workshop is probably the greatest human waste a nation could practise or permit. For some of the prevailing tendencies of modern industrialism appear to be more 'costly' in their bearing upon women than on men. In regard to factory work, and all other industrial work involving a long continuous muscular or nervous strain, or, as in shop labour with its long hours of standing, medical authorities are unanimous in holding that women suffer more than men.¹ 'If a like amount of physical toil and effort be imposed on women, they suffer to a larger degree,' states Sir W. MacCormac.² Statistics of employment from various countries agree in showing that the amount of morbidity, as measured by the number of days lost by illness, is greater among working-women than among working-men, and that the mortality of working-women is greater than that of working-men, notwithstanding the fact that the average life of a female is longer than that of a male. Long hours and speeding-up of machinery thus evidently inflict graver organic costs on women than on men. Where piecework is in vogue, it furnishes a stronger stimulus to over-strain in women, because the general lowness of their wage gives a larger importance to each addition.

§ 3. Thus in comparing the human costs of producing a given quantity of goods, due account must be taken of the distribution of the output of productive energy among workers of different sexes, and ages. The earlier tendency of the factory system in this country, the existing tendency in some countries, has been

¹ Cf. Goldmark, Part II, p. 126.

² *Report of the Select Committee of the House of Lords on Early Closing in Shops, 1901.*

to impose a growing burden of monotonous and fatiguing labour upon women and children. At certain stages in the development of industrial machinery, this has been held to be a 'profitable' economy, and in many processes of hand labour subsidiary to the factory system it still survives. Though legislation and other influences have checked the worst injuries of child employment in factories and workshops in more civilised communities, a great amount of human cost is still incurred under this head. Though young children are no longer used to any large extent in factories, the vast expansion of distributive work has sucked into premature wage-earning immense numbers of boys who ought to be at school. It is probable that the net tendency of British industry in recent years has been towards a slow reduction of the more injurious and 'costly' forms of female employment. Though an enormous number of females are engaged in work the hours and hygienic conditions of which escape legal regulation, probably a growing proportion of employed women come under an economy of shorter hours. The drudgery of domestic service engages a less number of women, while the opening of a larger variety of employments both in manufacture and in commerce has somewhat improved their power to resist the excessive pressure of machine-conditions. The recent organised attack upon the 'sweated industries', however, reveals the fact that at the lower level of many trades a great mass of oppressive and injurious labour is extorted from working-women. Certain forms of new mechanical labour, not involving heavy muscular fatigue, but taxing severely the nervous system, are occupying a large number of women. The type-writer and the telephone have not yet been brought into conformity with the demands of health. Though machinery is generally bringing in its wake restrictions on hours of labour, the normal work-day of factory, office and shop still imposes a gravely excessive strain upon women employees. No small proportion of this excessive cost of women's work, however, is attributable to legal, professional, or conventional restrictions, which, precluding women from entering many skilled and lucrative employments, compel them to compete in low-skilled and overstocked labour-markets. The social waste of such sex discrimination is two-fold. Even in

trades and professions for which men have usually a greater aptitude than women, some women can perform the work better and more easily than some men, and, if they are denied equal opportunity of access, the work is done worse or at a greater human cost. The reluctance to admit women into the learned professions on equal terms with men undoubtedly involves a loss to society of some of the finest service of the human intellect, while it entrusts some of the skilled and responsible work, thus denied to women, to relatively ignorant and incompetent men. The other human cost is perhaps even heavier. For the excessive competition, to which women are thus exposed in the occupations left to them, depresses the remuneration in many instances below the true level of physical efficiency, induces or compels excessive hours of labour, breaks down the health of women-workers and injures their life.

§ 4. This general survey shows that the human 'costs' of labour are closely associated in most cases with that subdivision and specialisation of activities which takes its extreme form in machine tending and which conforms most closely to mere 'repetition' as distinguished from the creative branches of production. But this identification of 'repetition' and human costs cannot be pressed into a general law. For reflection shows that repetition or routine does not always carry cost, and that on the other hand some labour which has considerable variety is very costly. Healthy organic life permits, indeed requires, a certain admixture of routine or repetition with its more creative functions. A certain amount of regular rhythmic exercise of the same muscles and nerve-centres yields vital utility and satisfaction. In some sports this exercise may be carried so far as to involve considerable elements of fatigue and endurance which are offset during their occurrence by the sense of personal prowess and the interest of achievement. This sentimental zest of endurance may notoriously be carried to extremes, injurious to the physical organism. Moreover, a certain amount of narrow physical routine often furnishes a relief element for the tired nerves or brain. Digging or knitting, though intolerable as a constant employment, may furnish by their very physical routine an organic benefit when applied as a recreation. The same,

indeed, is true of most other not too taxing forms of manual or mental routine labour, especially if they contain some obvious utility. Some slight element of skill seems needed for certain natures, but a bare uninteresting repetition commonly suffices.

Such considerations dispose of the assumption that all repetition or routine in productive work is necessarily indicative of human cost and carries no organic utility or satisfaction. It is only when repetition is extended so as to engage too large a share of the time and energy of a human being that it involves a cost.

So, on the other hand, it is not the case that all labour containing variety and opportunity for skill is costless and organically good. Take for a notable example agricultural labour. Irregularity of soil and weather, the changes and chances of animal and vegetable life, the performance of many different processes, remove such work from the category of exact routine. Yet most of the labour connected with agriculture is, under the actual conditions of its performance, heavy, dull and joyless. In each process there is usually enough repetition and monotony to inflict fatigue, and the accumulation of separate fatigues in a long day's work, unalleviated by adequate personal interest in the process or its product, makes a heavy burden of cost.

The same holds of other departments of industry where some inherent elements of skill and interest are found. The total burden of effort given out in a long day's work, continued week after week, year after year, under the conditions of wagedom, greatly outweighs these technical advantages. Duration and compulsion cancel most, though not all, of the superiority of such work over machine tending, or clerking. A little labour in any of the handicrafts, in machine-running, the management of motor-cars or boats, in gardening and other modes of agriculture, serves as a pleasant pastime when undertaken as a voluntary and occasional employment. Make it regular, continuous, compulsory, and the enjoyment soon vanishes. The very elements of interest for the casual amateur often constitute the heaviest cost for the worker who lives by doing this and nothing else. Take motor-driving for an example. The quick exercise of nerve and muscle, the keenness of eye, wrist and attention, required to drive easily, quickly and safely, amid traffic or in a tangle of roads, gives

nerve and interest to driving as a recreation. But this multiplication of little strains and risks, accumulating in a long day's work, and undertaken day after day, in all conditions of health, disposition and weather, soon passes from an agreeable and stimulating exercise into a toilsome drudgery.

Consideration of the work in the distributive trades, wholesale and retail, which absorb an ever-growing proportion of our wage-earners, is most instructive for understanding the respective parts played by specialisation, duration, and compulsion in the human costs. Machinery has little direct control over the work of these clerks, warehousemen, shop-assistants, typists, etc : their work contains constant little elements of variety in detail, and a moderate amount of it imposes no fatigue. But the scope afforded for personal skill or achievement is insufficient; most of it is unmeaning and uninteresting so far as useful results are concerned; it involves constant obedience to the orders of another; and it is unduly prolonged.

§ 5. We are now in a position to sum up the results of our general analysis of the human costs of labour, in which Tarde's distinction between creation and imitation or repetition was our starting point. So far as the merely or mainly physical costs are concerned, the muscular and nervous strain and fatigue, excessive repetition is a true description of the chief cause. Machine tending at a high pace for a long working-day is in itself the most 'costly' type of labour, and, in so far as a machine controls the sort and pace of work done by a human being, these 'costs' accumulate. But most work is not so directly controlled by machinery, and yet is so highly specialised that the routine constantly over-taxes with fatigue the muscles, nerves and attention. The duration and pace of such labour are usually such as to heap up heavy costs of physical wear and tear and of physical discomforts.

But the antithesis of creation and imitation or repetition has a different significance for the interpretation of physical costs. There it is not so much the absence of novelty involved in repetition, as the absence of personal liberty and spontaneity that counts most heavily. There are, in fact, few sorts of necessary productive labour which a man is not prepared to do for himself,

with some measure of personal satisfaction, if he has within his own control the performance of this task and the result. But when another's will and purpose supersede his own, prescribing actions to be done under conditions of time, place and manner, determined by that other, this servitude to another's will is always irksome and may be degrading. The human cost of most domestic service lies largely here. The work itself has more detailed variety and interest than most, and where the housewife herself does it, it often furnishes a net fund of human satisfaction. But the moral and intellectual costs of a hired servant, compelled to obey the arbitrary and capricious orders of a mistress, and to suppress her own will, tastes and inclinations in the execution of her task, are often very heavy. In a smaller degree this applies to all wage-earners engaged in any work where scope for their free volition is technically feasible. To substitute another's will for one's own, in matters where one has a will, is always a human cost. That cost, however, need not be great. When a worker is a unit of labour in some great business, his actions conforming to rules which, however troublesome, belong to the system, the consciousness of loss of liberty is far less than when the changing will of a personal employer operating amid the details of his work is the instrument of discipline. A shop-girl in a large business has a feeling of greater independence than a domestic servant, a factory-hand than a shop-girl, while the low wage of home-workers is in part attributable to the removal of the worker from the immediate domination of the employer's will.

§ 6. In assessing the psychical elements of cost, it is well to distinguish those related to a loss of liberty, or an encroachment upon personality, from those which are the conspicuous results or counterparts of the physical strains. For the enlargement of certain of these psychical costs is an exceedingly important factor in what is called 'industrial unrest'. This irksomeness of narrowly specialised labour and of the 'enslaving' conditions of the ordinary working life grows with the growth of intelligence and sensibility among the working-classes. Under the older order, of accepted class distinctions and economic status, implicit obedience to the employer's will carried no conscious moral cost. A new sense of personal dignity and value has now arisen in the

better educated grades of workers which interferes with arbitrary modes of discipline. When they are called upon to do work in a way which appears to them foolish, injurious, or inequitable, a sense of resentment is aroused which smoulders through the working week as a moral cost. With every widening of education there comes, moreover, a discontent not merely with the particular conditions of the labour, but with the whole system, or set of conditions, which addicts so large a proportion of their working hours and energies to the dull heavy task by which they earn their living. So too the narrow limitation in the choice of work which the local specialisation of industry involves, becomes a growing grievance. The 'conditions of labour' for themselves and others, taken as a whole, are realised as an invasion and a degradation of their humanity, offering neither stimulus nor opportunity for a man to throw 'himself' into his work. For the work only calls for a fragment of that 'self' and always the same fragment. So it is true that not only is labour divided but the labourer. And it is manifest that, so far as his organic human nature is concerned, its unused portions are destined to idleness, atrophy, and decay.

This analysis of the conditions may seldom be fully realised in the consciousness of the worker. But education has gone far enough to make them real factors of working-class discontent. They constitute a large motive in the working-class movement which we may call the revolt of the producer against the excessive human costs of his production.

This is the great and serious indictment against the economy of division of labour. Associated with it is the charge that the worker in one of these routine subdivided processes has no appreciation of the utility or social meaning of his labour. He does not himself make anything that is an object of interest to him. His contribution to the long series of productive processes that go to turn out a commodity may be very valuable. But, as he cannot from his little angle perceive the cooperative unity of the productive series, it means nothing to his intelligence or heart.

So not only does the performance of his task afford him no satisfaction, but its end or object is a matter of indifference to him. There is this vital difference between the carpenter who

makes a cupboard or a door, fits it into its place and sees that it is good, and the bricklayer's labourer who merely mixes mortar and carries bricks upon a hod. A man who is not interested in his work, and does not recognise in it either beauty or utility, is degraded by that work, whether he knows it or not. When he comes to a clear consciousness of that degradation, the spiritual cost is greatly enhanced. It is true that specialisation in labour is socially useful, and that, if that specialisation does not encroach too largely upon the energy and personality of the individual worker, he is not injured but helped by the contribution to social wealth which his special work enables him to make. Larger enlightenment as to the real meaning and value of his work, and the sense of social service which should follow, may indeed be expected to reduce considerably the irksomeness of its present incidence. But it can do so only upon two conditions. In the first place, the duration and strain upon his physical and moral nature must be diminished. Secondly, the general conditions both of labour and of its remuneration must be such as to lead him to recognise that the discipline which it enjoins is conducive to a larger liberty, viz. that of willing coöperation with his fellows in the production of social welfare. As yet the attainment of these conditions has not kept pace with the new desires and aspirations which have grown so rapidly among the rank and file of workers in the advanced industrial countries. Hence a new burden of spiritual costs, expressing an increased divergence between conscious aspirations and the normal conditions of the worker's lot. The education of the town worker, the association with his fellows in large workshops, the life of the streets, the education of the school, the newspaper, the library, the club, have made him increasingly sensitive to the narrowness and degradation of excessive routine in joyless labour.

CHAPTER VIII

HUMAN COSTS IN THE SUPPLY OF CAPITAL

§ 1. So far, in discussing the human 'costs' of production, we have confined our attention to the activities of body and mind directly operative in producing marketable goods or services, grading them from the creative and generally 'costless' work of the artist and inventor to the repetitive and 'costly' work of the routine manual labourer. We now proceed to examine the human costs involved in the processes of providing the capital which coöperates with labour in the various productive operations. The economic 'costs', for which payment is made out of the product to capital, are two, risk-taking and saving. What are the human costs involved in these economic costs?

To clear the ground for this enquiry it will be well to begin by making plain the sense in which risk-taking and saving are 'productive' activities. Neither of them is 'work' in the ordinary organic sense of the application of muscle or nervous energy to the production of wealth. Both would rather be considered as activities of the human will and judgment which increase the efficiency of the directly productive operations. Their productivity may thus be regarded as indirect. But it is none the less real and important on that account. For unless there was postponement of some consumption which might have taken place, and the application of the non-consumptive goods, which this postponement enabled to come into existence, to uses involving risks of loss, 'work' would be very unproductive in comparison with what it is.

Risk-taking, the giving up of a present certain utility or satisfaction for the chance of a larger but less certain satisfaction in the future, is, we know, the essence of business enterprise. Such enterprise by no means always entails a human cost. In industry, as in all human functions, experiments, involving risk, are frequently a source of vital interest and of conscious satis-

faction. There are two roots of this satisfaction, the staking of one's judgment and skill in forecasting and determining future events, and the actual joy of hazard. The former is a common trait of intelligent personality, the latter a powerful, though less general motive, involving a 'sporting' interest in life. The spirit of adventure applied to business, enhances the conscious values. Whether it be motivated by some physical restlessness or by some element of faith, it must be accounted an organic good, alike as means and end. If all the risk-taking involved in current industry were of this nature, it would not then figure in our bill of human costs, but on the other side of the account. But where the conditions of actual business impose elements of risk that are either in kind or magnitude compulsory, not voluntary, not only does no satisfaction attend the taking of these risks, but considerable loss and suffering may accrue. Risks that are either great in themselves or great in relation to the capacity to bear them are frequently required by the conditions of modern business enterprise. The men who undergo these risks do not deliberately or with express intention stake their faith and foresight on a game of gain or loss, or even enter into the risks with the gambler's zest. They undergo these risks because they cannot help themselves, and the anxiety attendant on these risks is often one of the heaviest psychical and physical costs of the business man.

§ 2. In analysing risk-taking as a special cost of capital, I must guard against one misunderstanding. Risk-taking, of both sorts, humanly good and humanly bad, is not of course by any means confined to administration of capital. Everyone who, either by choice or by the necessity of his situation, devotes his personal energies to making any product for the market, or to improving some personal capacity with a view to its productive use, incurs risks. In some cases the risks may not indeed entail real human waste, as where the artist or inventor speculates with his creative faculty. Or the professional man, preparing for his career, may willingly and with zest enter a competition in which prizes are few. Men equipped with vigorous intellect and determination will get out of the struggle for professional or commercial success a satisfaction of which the risk of failure is a necessary condition. But for most men a small quantum of hazard

suffices. A little risk may stimulate but a larger risk will depress efficiency. A doctor, a lawyer, an engineer is willing to put his natural and acquired ability against those of his fellows in a fair field where the chances of success are reasonably large. But when the risks are so numerous and so incalculable as they are to-day in most professional careers, the anxiety they cause must be accounted a heavy human cost. The same applies to the career of most modern business men. It also constitutes a new and growing cost of labour.

For though it may be true that the actual risks of a working life, personal or economic, are no greater than in former times, the emotional and intellectual realisation of these risks is growing. Education enables and compels the intelligent workman to understand the precarious nature of his livelihood, and his growing sensibility accumulates in 'worry'. This is certainly one of the main sources of 'industrial unrest'.

But though risk-taking thus enters as a human cost into the life of other owners of productive powers, we do right to accord it special attention in relation to the supply of capital. For in the provision of all forms of capital, and in the payment for its use, risk-taking is an element of primary importance, and, though in theory separable from the act of abstinence, postponement, or waiting, which comes into prominence as the direct psychical cost of saving, it is not separable in industrial practice.

§ 3. Let us first examine the economic costs involved in the provision of industrial capital. That process consists in making, or causing to be made, non-consumable goods, which are useful for assisting the future production of consumable goods, instead of making, or causing to be made, directly consumable goods. We need not discuss at length the shallow criticism pressed by some socialists to the effect that since labour makes all goods whether non-consumable or consumable, the only economic and human cost of providing these forms of capital is the productive energy of labour. For the decision and effort of mind or will, which determines that non-consumables shall be made instead of consumables, proceeds not from the labour employed in making them, but from the owners of income who decide to save instead of spending. This decision to save instead of spending is the

economic force which causes so much of the productive power of labour to occupy itself in making non-consumables. It is of the first importance that the ordinary business man, to whom 'saving' is apt to mean putting money in a bank, or buying shares, shall realise the concrete significance of his action. What he is really doing is causing to be made and to be maintained some addition to the existing fabric of material instruments for furthering the future production of commodities. This is not, as it may at first appear, a single act of choice, the determination to use a portion of one's income, say £100, in paying men to make steel rails or to put up a factory chimney, instead of paying them to make clothes, furniture, or wine for one's current consumption. The effort of postponement, or the preference of uncertain future for certain present consumables, necessary for supplying capital, if it is an effort, is a continuous one lasting all the time the capital is in use. The critic who asks, why a single 'act of abstinence' which is past and done with should be rewarded by a perpetual payment of annual interest, fails to realise that, so far as saving involves a serviceable action of the saver, it goes on all the time that the saver lies out of the full present enjoyment of his property, i. e. as long as his savings continue to function as productive instruments.

This view, of course, by no means begs the question whether there is of necessity and always some human cost or sacrifice involved in such a process of saving. It is, indeed, clear that a good deal of capital may be supplied without any human costs either in postponement of current satisfaction or in risk-taking. The squirrel stores nuts by an organic instinct of economy against the winter, as the bear stores fat. The thrifty housewife lays up provisions by a calculation hardly less instinctive against the probable requirements of the family in the near future. The balancing of future against present satisfaction, involved in such processes, cannot be considered as involving any human cost, but rather some slight balance of utility. I am certainly in no sense the loser in that I do not lay out all my income the same day that I receive it in purchasing immediate satisfaction. Why I am not the loser is evident. The first 5 per cent of my income I can perhaps spend advantageously at once upon necessities

and comforts which contribute immediately to my welfare. But if I know the sum has got to last me for six months, it will evidently pay me in organic welfare to spread nearly all the rest in a series of expenditures over the whole period, so that I may have these necessities and comforts all the time. If my income is no more than just sufficient to keep me in full health, i. e. in providing vital 'necessaries', organic welfare demands a quite even expenditure, entailing the proper quantity of postponement. If there is anything over for expenditure on unnecessaries, this will not be quite evenly spread over the six months. For any comforts it affords appear to bring more pleasure if enjoyed now than in three or six months' time.¹ And, besides, there is the question of uncertainty of life, upon the one hand, and the risk of being unable to get hold of the future comforts when I may want them. This depreciation of future as compared with present satisfaction and these risks will properly induce me to grade downwards the expenditure on comforts during the period in question. But in this laying out of my income, so as to secure for myself the maximum of satisfaction and utility,² there is no human cost or sacrifice. On the contrary, any failure to 'save' or 'postpone' might be attended by a heavy cost. Many a savage has died of starvation because he has gorged to repletion instead of storing food to tide him over till he gets possession of a new supply. Thus this simplest economy of saving, the spreading of consumption over a period of time, is evidently costless.

§ 4. Now, though the saving which consists in keeping stores of consumables for future consumption does not furnish what would be called capital, and so does not come directly within the scope of our particular enquiry into 'costs of capital,' it gives a useful test for the economy of saving under modern capitalism. The modern saver does not, indeed, usually keep in his possession for future consumption a store of consumable goods. It would

¹ Observe that this appearance is illusory. The maximum of organic utility would probably involve an even expenditure of all the elements of income without allowance for my preference of present over future.

² It may be urged that, even in respect of necessities, there will be some discount for future as compared with present consumption. But in any class of civilised men, whose income is paid at long intervals, this discount will be very small and may be ignored.

be inconvenient to store them, many of them are by nature perishable and so incapable of storage. Besides, modern industry affords him a way of making industrial society store them for him, or, more strictly, makes it produce a constant supply of fresh consumables to which he can get access. Nay, it provides still better for his needs, for it enables him, by postponing some present consumption to which he is entitled, not merely to take out of the constant social supply the full equivalent of his postponed consumption at any time he chooses, but to receive an additional small regular claim upon other consumptive or productive goods, called interest.

This extra payment was regarded by the classical economists as a cost or price paid for an effort of abstinence. More recent economists have usually chosen to substitute for abstinence 'waiting' or some equally colourless term. But abstinence is better, for it does suggest a painful effort involving some human cost, some play of motives naturally adverse to saving which requires to be overcome by a positive economic payment. Thus, not merely the economic, but the moral or human necessity of interest is best asserted.

This abstinence or postponement of possible present consumption of commodities is admittedly the condition or even the cause of the supply of the productive instruments which increase the production of future wealth and incidentally furnish the fund out of which the interest is paid. For our present purpose, then, it makes no difference whether we look at the primitive saving which stored consumables for future use, or the modern saving which causes productive instruments to be created, applied and maintained. The question whether there are human costs of saving, and what they are, is in the last resort the same in both cases.

Out of any individual, or social, income a certain amount or proportion of saving evidently may be 'costless' in the human sense. That is to say, the person or society that saves it sustains no organic loss or injury by doing so, though he may sometimes think or feel he does. If he does so think or feel, society must set a counter-weight against this false imaginary loss, in the shape of interest. But, as we have already noted, there is a good deal of saving which represents the calculated outlay over a period of

time, which the owner of an income will make in his own interest. In such cases there is no human cost, and if an economic cost (interest) is defrayed, it has no human correlative. From the standpoint of human distribution of wealth it involves a waste.

The organic utility to individuals of hoarding, in order, by distributing consumption over a longer period of time, to get from it a larger aggregate of goods, will thus furnish a considerable quantity of instrumental capital to modern industry. For, only by putting the postponed consumption into the form of instrumental capital, can the savers establish the lien they want upon the future output of consumables. If all the required capital could be got by this simple play of motives, the savers balancing more useful future units of consumption against less useful present units, with due allowance for risks connected with postponement, the supply of capital would be humanly 'costless.' Though some element of risk, inherent in the proceeding, would, taken by itself, carry a cost, the superior utility attaching to the postponed units of consumption, as compared with that which the same number of units would afford when added to the consumption already provided, would offset that cost, so that the arrangement, as a whole, would be costless.

§ 5. Though the method of our analysis has obliged us to approach this problem of saving as part of our enquiry into processes of production, because it is the means by which a productive factor, viz. capital, is supplied, it appertains directly to the process of consumption, or outlay of income on consumables. As the current expenditure of any member of industrial society will be distributed among a number of different purchases, contributing by natural, conventional, or purely personal connections, towards a standard of consumption endowed with maximum utility (or what the consumer takes for such), so will it be with the distribution of expenditure over points of time. Let us elevate into a clear conscious policy of calculation what is in large measure a blind instinctive conduct, and the organic relation between the two 'economies' is apparent. It involves an intricate balancing of larger future utilities, weighted by risks, against smaller present utilities not so weighted. To take the simplest instance. If, out of an income of £600 coming in this year, I

decide to consume £500 in the current expenditure of the year and to put aside £100 for consumption in five years' time (when I purpose to work only half-time and earn only half my present income), I shall have estimated that the luxuries which I could buy this year by the sixth hundred pounds expenditure are slightly less agreeable or 'useful' to me than the comforts purchasable by the fourth hundred pounds as visualised five years off, with an allowance for the chance that I may then be dead, or that I may have come into a legacy which renders this postponement of consumption unnecessary. In a word, this economic ego must be conceived as operating by a plan of outlay which, in regard to the disposal of the current income, has a longitude and latitude of survey and valuation. Just as the different ingredients of present consumption make a complex organic whole with delicately proportioned parts, the size and form of each dictated by the unified conception of the current standard of comfort, so the disposition of the income over a series of points of time in which present values of each several consumable and of the whole standard are compared with future values, involves the similar application of a plan for the realisation of my economic ideal. Though a fully rational conception and calculus, either for the composition of current expenditure or for prospective outlays, is very rare, some half-conscious, half-instinctive calculus of the sort must be accredited to everybody.¹ So far as it is rightly conducted by their reasoning or just instinct, it means that, out of all or most of the members of an industrial society, some humanly costless saving could be got, some contribution towards the socially desirable fund of capital.

§ 6. As, then, we have seen that a certain proportion of the various current activities, which are directly productive in the shape of skilled and unskilled labour of brain and hand, are either humanly costless or carry some positive fund of human utility, so is it also with the processes of saving and risk-taking, which go to the supply and maintenance of capital. It is not difficult to conceive a society in which all the saving needed for the normal development of industry might be costless. In a primitive society, based chiefly on agriculture and simple handi-

¹ For a discussion of the nature and limitations of this calculus see Chapter XXI.

crafts, one might find the bulk of the working population earning a secure and sufficient livelihood, but with no margin of savings for instrumental capital. The comparatively small amount of such capital as was needed might be furnished mainly or entirely from the surplus incomes of a landowning or a governing class, extracted as rent or taxes. Of course, if, as would commonly occur, such rents or taxes were extorted from the peasantry by starving them or by imposing a burden of excessive toil, the human costs of such saving would be very heavy. But where a class of feudal lords drew moderate rents and fines from their tenants, or where a governing caste, such as the Incas in ancient Peru, applied to useful public works a large share of what would be called the 'economic rent' of the country, taken in taxation, such saving need entail no human cost. Nor is such costless provision of capital necessarily confined to a society living under simple industrial conditions in which comparatively little saving can be utilised. Even in an advanced industrial society the large incessant increments of capital might be provided costlessly. For if the national dividend were not only very large but so well or equably distributed, as income, that all classes had more than enough to satisfy their current organic needs, such a society would, by a virtually automatic economy, secrete stores of capital to meet the future needs of a growing population or a rising standard of consumption, as every animal organism naturally lays up stores of fat, muscle and physical energy, for future use.

A well-ordered socialistic state, were such possible, would certainly apply the industrial forces at its disposal, so as to secure an adequate supply of costless capital. After making proper provision out of current industry for the physical and moral health of the whole population, and for normal progress in personal efficiency of work and life, it would apply the surplus of industrial energy to improving the capital fabric of industry so as to provide for the production of increasing wealth, leisure, and other opportunities in the future. The calculation, as to what proportion of current industrial energy should be thus applied to preparing future economic goods to ripen for utility at various distances of time, would of course be a delicate operation. But so far as it were correctly carried out, it would be

socially costless. For on the hypothesis that adequate provision for current needs of individual stability and progress had been a first charge on the industrial dividend, the postponement of any additional consumption involved in social saving could not rightly be regarded as involving any net human cost. For, if, instead of the surplus being saved, it had been paid out to individual members of society for current consumption, it would *ex hypothesi* be unproductive of organic welfare, being applied in an injurious and wasteful attempt to force the pace of advances in the current standard of living. Applying the organic metaphor, one would say that it was a natural function of an organised society to secrete capital in due quantity for its future life.

§ 7. But how far can it be held that an industrial society like ours is so organised as 'naturally' to secrete the 'right' quantity of capital, to provide it in a costless way, and to distribute it economically among its various uses? A full answer to these questions must be deferred until our analysis of the consumption side of the national dividend enables us to assess the human utility of the productive work to which capital is applied. At present we must assume the utility of the £300,000,000 of savings applied out of the aggregate national income to the enlargement of industry, and confine ourselves to enquiring what proportion of this amount is likely to be 'costless' and how to estimate the 'human costs' attached to the other part. It is, of course, quite evident that such answer as can be given is of a general and speculative nature, with no pretence at quantitative exactitude.

In considering savings with an eye to discovering the human costs, it will be well to classify these savings under three heads. First will come what may be termed the automatic saving of the surplus income of the rich, that which, remaining over, after all wants, inclusive of luxuries, are satiated, accumulates for investment. The proportion of new capital proceeding from this source will vary with the amount and regularity of such income, its distribution among the rich, and their attitude of mind towards the expenditure of their incomes. The automatic or spontaneous character of this saving is due to the fact that no close relation exists between progress in industry and the evolution

of a personal standard of consumption. Sudden rapid advances of income are not usually accompanied by a corresponding pressure of new personal wants tending immediately to absorb in increasing expenditure each increase of income. Though no limit can be set upon the expenses of a luxurious standard of consumption and the vagaries of personal extravagance, expensive habits take time for their establishment, and in a progressive industrial society where skilful, or lucky, business men are making fortunes rapidly, their acquisitive power will be apt to run far ahead of their consumptive practice. Moreover, the absorption in the practice of making money evidently retards the full acquisition of habits of lavish expenditure, giving full scope to the development neither of tastes nor of opportunities. This will be particularly true of incomes growing not by regular increments but by sudden rushes. Extreme instances abound in the recent history of America. Where the quick skilful seizure of new sudden opportunities, conjoined with a general development of national resources at an abnormally rapid pace, enables a Jay Gould or a John D. Rockefeller to amass millions within a few years, a wide natural divergence is created between income and expenditure. Enormous masses of unspent income thus roll up into capital which again continually grows by the accumulation of the unspent interest it earns. Though the number of persons in this position of financial magnitude is very few, a considerable class of successful business men in America and in every advanced European country comes into the same category as regards capacity of saving. While their personal and family expenditure may be continually rising, it will tend to keep in safe adjustment to what may be termed a conservative estimate of their income. The occasional great trading coups, the enormous profits of a commercial or financial boom, will not even tend to be assimilated in expenditure.

Wherever the economic circumstances of a country are such as to throw a large proportion of the growing wealth into the hands of a class of busy rising men, by a series of great windfalls or more or less incalculable increments, the new capital flowing from these superfluous incomes will be large. Moreover, so far as it is automatic, it will have little if any regard to rate of in-

terest, and thus to 'social demand', so far as interest can be considered a just index of social demand.¹

Even when the element of fluctuating or fortuitous increase of income is not present, a fairly rapid advance of income, particularly where it is 'earned' and therefore carries no presumption of indefinite continuance, will ordinarily leave a considerable margin of automatic saving. This will be larger where the standard of living is already established on a high level. For though certain curious psychological traits seem to show an extraordinary concentration of personal interest in the extravagances which give personal distinction in 'society', the low pressure of organic utility, or the emergence of positive disutility inherent in many of these forms of luxury, must be considered to exercise some check. Putting the matter simply, one would say that real primary human needs are more readily assimilated in a standard of consumption than purely conventional or positively injurious modes of expenditure. So, making every allowance for the depravity of tastes and the zest for competitive extravagance, it will remain true that the classes with large incomes will tend to contribute to capital a large amount of surplus income by a process of automatic accumulation.

For such saving there is neither an economic nor a human cost involved: the interest it receives is in the economic sense as much a 'surplus' as the rent of land. Not merely is there no human cost, there is a positive human utility in such saving, for it is an instinctive rejection of the injurious effort to incorporate this surplus in a current expenditure already adequate to satisfy all felt wants, good or bad.

It is likely that a large and a growing proportion of the total volume of saving in England and in the Western world is of this order. For though it may not be generally true that the rich are growing richer and the poor poorer, it is probably true that both a larger quantity and a larger proportion of the national income are in the hands of rich and well-to-do business men whose means have been advancing faster than their expenditure.

¹ 'So ingrained is the habit of accumulation among the prosperous classes of modern society, that it seems to proceed irrespective of the rate of interest.' Tausig, *Principles of Economics*, Vol. II, p. 27.

§ 8. So much for the automatic saving of the rich. We have next to take into account the admittedly large contribution of the classes who in respect of income are 'middle'. This comprises the great majority of families engaged in the directive work of manufacture and commerce, and almost the whole of the upper grades of the professional and official classes in such a country as ours, as well as a considerable number of persons of moderate 'independent' means. A certain amount of conscious 'thrift' is traditional in these classes. It is by no means automatic, but involves for the most part some conscious sacrifice of current satisfaction in favour of a greater estimated future satisfaction to the saver or his family. The motives which influence such saving, alike in its amount and its application as capital, are complex and various. But the sacrifice ascribed to such saving cannot be assumed to involve any economic cost, in the sense that it requires the payment of economic interest to evoke it. Still less can it be assumed to involve a human cost. A good deal of this middle-class saving, though less automatic than the savings of the rich, is a calculated postponement of some expenditure which might purchase present comforts or luxuries, in order to make provision for the purchase of necessities or conveniences at some future time. In a word, it is of the nature of the 'stocking' saving, which the better-to-do peasants have always practised before the opportunities of profitable and fairly safe investment were open to them. Though utilised to earn interest, the saving would be made just the same if no objective interest were attainable, provided it were tolerably secure against pillage or destruction. Risk counts for more than interest in such saving, and the bulk of the so-called interest which such savings demand, as a condition of loan or investment, is not true interest but insurance. But in practice inseparable from such saving is that undertaken with the direct object of earning interest upon the capital. A great deal of middle-class saving, and some saving of the rich class would not take place without the hope of receiving interest. If no interest were attainable, though some saving might take place, in order to provide against the possibility of a total collapse of current earning power and a consequent deprivation of the necessities of life, there would be little disposi-

tion to give up any present free expenditure on comforts in order to provide for future comforts which might not be wanted, or which, in consequence of loss of savings, might not be procurable. A positive bonus in the shape of interest seems necessary to evoke this latter saving. The operation of this bonus as an inducement is, however, very complex. It might appear at first sight obvious that, the larger the bonus in the shape of rate of interest, the greater the aggregate of saving it would evoke. So far as non-automatic saving is motivated by a general desire to be better off in the future, in order to attain a standard of consumption and of social consideration which denote success and satisfy personal ambition, or in order to bequeath a large estate to one's family, higher interest will tend to evoke a corresponding increase of saving in those whose current incomes enable them to save considerable sums without encroaching upon their established standard of comfort. Young or middle-aged men, of an aspiring nature and with rising incomes, will undoubtedly save more if they see a handsome return on their investments. But, as most men will realise more clearly and feel more keenly these future economic and social gains if the full fruits of such savings will be reaped by themselves, not by their heirs, ageing men will be likely to respond less freely to this motive. Present comfort, security, and power, will mean more to them than a future liberality of living which they can only hope to enjoy for a few years, if at all. The amount, therefore, of the acceleration of saving achieved by a rise of interest will depend a good deal upon the relative importance this general desire to be better off possesses as an inducement to save. That relative importance again will depend a good deal upon whether the economic and social conditions of the community place considerable numbers of younger business or professional men in a position of rising incomes and of considerable saving power, or, on the contrary, confine such surpluses chiefly to older men.

If, instead of taking as our motive a general desire to be better off, we take a desire to save in order to make some limited specific provision, as for example to buy an annuity of £100, the effect of a higher rate of interest upon volume of saving is likely to be different. Though it may serve to quicken in some degree

the pace at which the sum required will be amassed, it will reduce the absolute amount of saving. For when interest is higher, the capital sum required to yield an annuity of £100 a year will be less than before. Against this, however, must be set the fact that, when a definite sum is needed in order to pay off some debt, or to furnish a sufficiency for retirement, a high rate of interest may be required in order to make this saving possible or certain. If a man cannot save enough to attain such definite object, he will not save at all, for an insufficient amount will be held futile; whereas, if a rise of interest gives him a good prospect of saving the required amount, he will put forth the effort.

§ 9. But making due allowance for counteracting motives, it is tolerably certain that a rise of interest, showing any signs of continuance, will stimulate an increase of 'motivated' saving, though by no means a proportionate increase. Thus it will appear that, so far as this large section of middle-class saving is concerned, some definite measurable economic costs, in the sense of deprivation of current consumption, are involved, requiring compensation in the shape of interest. But the question which concerns us is whether there are human costs corresponding to and involved in these economic costs. In answering this question, it is not enough to point to the admitted fact that this saving involves the failure to satisfy some current desire for increased consumption. It has to be considered whether the sacrifice of current 'satisfaction' is really a sacrifice of welfare, either from the standpoint of the saver, or of the society of which he is a member. For we have not taken the view that the personal transient desires and valuations of consumers are a final criterion, either of personal or social welfare. If then the saving evoked by paying interest merely means that certain fairly well-to-do folks abstain from comforts or luxuries, which, though agreeable and innocent, carry no organic benefit, there is no human cost, or even if there is some slight cost, it may be offset by the individual or social benefit resulting from the postponement of consumption. A large proportion of motivated middle-class saving undoubtedly falls within this category. But by no means all. A good deal of lower middle-class saving eats into certain factors of humanly serviceable expenditure, particularly expenditure in education

of the young. Frequently it injures the free life of the home by the constant pressure of niggling economies, which, though not perhaps injurious in the particular privations they impose, leave no margin for the small pleasures and amenities which have a vital value. Even though we assume that such saving brings, in the ownership of property and the interest it yields, a full vital compensation to the individual who saves, it by no means follows that it is socially justified, when a true criterion of social welfare is applied. Take for instance the saving which is diverted from expenditure on education, precluding the children from getting a university or professional training and turning them on the world to earn a living, less effectively equipped than they might have been. Society may be a heavy loser by its policy of evoking such thrift by means of interest, for it obtains a certain amount of material capital in place of the more valuable intellectual or moral capital which the money, expended upon education, might have yielded. Even regarded from the standpoint of future economic productivity, the stimulation of this sort of saving is likely to be injurious.

§ 10. Far graver importance attaches to this consideration when we approach the savings of the working-classes. The contribution made from this source to the flow of fresh capital, the £300,000,000 per annum, is evidently attended by heavy human costs. Very little of it can be regarded as the considered reasonable outlay over a long period of time of income not needed for current organically useful consumption. Most of it involves a stinting of the prime necessities or conveniences of life, or of some rise in present expenditure which would promote the health or efficiency of the family. Almost the only saving made by ordinary wage-earners not attended by this human sacrifice is that applied by young workers, who having only themselves to keep, can afford to set aside some portion of their pay in full employment so as to furnish a future home, and to insure against a few special emergencies involving loss of earning power or expenses connected with death or sickness. Even such personally serviceable insurances the married worker can seldom properly afford. Though the narrower view of the economy of a self-sufficing family may appear to justify savings made out of a

wage the entire present expenditure of which can be applied to purposes of organically useful consumption, the wider social standpoint does not endorse this policy. For a workman to pinch on housing, clothing, the education of his children, or upon wholesome recreation, in order to avoid worse pinching in some unforeseen but probable emergency, may be sound individual economy. But, unless society is unable from other resources at its disposal to provide against these emergencies of working-class life, it is an unsound social economy, involving a heavy net cost of social welfare. The issue is a very vital one. It may be stated in this concrete form. Most of the savings effected in this country out of a family income of 40s. or less per week, and much of the savings made out of a larger income when the worker's family is young, involve a sort of abstinence which is fraught with heavy net costs in the social economy. No part of the economically necessary fund of annual capital ought to be drawn from this sort of saving. It is literally a coining of human life into instrumental capital, and the degradation of the term 'thrift' in its application to such saving is a damning commentary upon the false standard of social valuation which endorses and approves the sacrifice. The great risks of loss which actually attend such saving, and the heavy expenses of the machinery of its collection and administration, aggravate the waste. If we ascribe £50,000,000¹ out of the £300,000,000 to this class of savings, a proper social book-keeping would put the human costs of this working-class abstinence as a large offset to the net utility of the other £250,000,000. The forethought, endurance, and other real or supposed benefits to the character of the workers imputed to this 'thrift' can no more be regarded as a compensation for such social injury, than can the discipline and fortitude of soldiers be regarded as a testimony to the net human economy of war.

¹ This is most likely a gravely excessive estimate. Probably £30,000,000 or $\frac{1}{10}$ of the national saving would be nearer the mark. Moreover, a large proportion of working-class savings is not destined to purposes of permanent investment but to provision for some early probable emergency, e. g. burial or unemployment which will cancel the saving. There exist no approximately reliable estimates of the amount of capital belonging to the working-classes. The usually accepted figure includes under the head of Post Office Savings Bank and Building Societies a large but unknown quantity of middle-class savings.

CHAPTER IX

HUMAN UTILITY OF CONSUMPTION

§ 1. When we turn to the other side of the account, the human utility which this £2,000,000,000 of goods and services represents, we enter a country which, as we have already recognised, Political Economy has hardly begun to explore. For though the trend of a large modern school of economists has been to find in consumption the *vis motrix* of all economic processes, and to bring close study to bear upon the pressure of consumers' wants as they operate through demand in the markets of commodities, this *volte face* in the theory of values does not render much assistance to our human valuation. For their analysis of demands does not help us to interpret expenditure in terms of human utility. As an instrument for such a purpose it is doubly defective. For, in the first place, it is concerned entirely with the actual felt wants and preferences which in fact determine purchases. In the second place, it takes for granted the existing distribution of incomes or consuming power, tracing the operation of this power of demand upon the actual economy of economic processes. Now these limitations, quite necessary for the purely economic interpretation, are not suited to our requirements.

The current standard of valuations and of choice cannot be taken as an adequate standard of individual or social welfare. Felt wants, and demands based on them, form no doubt some index of welfare, but an insufficient one.

A considerable proportion of the goods and services included in the real income which we are analysing must from our standpoint be classed not as wealth, but as 'illth', to adopt Ruskin's term. What proportion we should place in the category will of course depend upon the degree to which we hold that the actual evolution of the arts of consumption has been distorted from its 'natural' course. But everyone will admit that many sorts of marketable goods and services are injurious alike to the individ-

uals who consume them and to society. A large proportion of the stimulants and drugs which absorb a growing share of income in many civilised communities, bad literature, art and recreations, the services of prostitutes and flunkeys, are conspicuous instances. Not merely does no human utility correspond to the economic utility ascribed to such goods, but there is a large positive disutility. The aggregate human value of a growing national income may easily be reduced by any increase in the proportion of expenditure upon such classes of goods, and tendencies of distribution which lead to such proportionate increase may even invalidate the assumption that social welfare upon the whole grows with the growth of the national dividend. We shall presently consider some of the factors in our social structure which bring about the development of definitely bad demands and bad products to satisfy them.

But just as we must write to the debit side of our human account a great many articles which figure on the credit side in ordinary economic book-keeping, so we shall be compelled to revise the comparative values attached to those articles which contain actual powers of human utility. A valuation which sets an equal value upon each part of a supply because it sells for the same sum cannot serve the purposes of a human valuation. For the amount of human utility, individual or social, attaching to the consumption of any stock of goods or services, must evidently depend in large degree upon who gets them and how much each consumer gets, that is to say upon their distribution.

The same goods figure as necessities of life or as waste according to who gets them. Some quarters of the same wheat supply furnish life and working energy to labourers, other quarters pass unconsumed into the dustbins of the rich.

There is, moreover, a third consideration which counts in the process of converting economic into human values. As in the distribution of productive energy human economy requires an adjustment to the individual capacity of production, so in the distribution of consumptive utilities a corresponding regard must be paid to the natural or acquired capacity of the individual consumer. Some persons have greater natural capacity than others for the use or enjoyment of certain classes of goods, material or

immaterial. An absolutely equal distribution of bread, or any other necessity of life, on a *per caput* basis, would evidently be a wasteful economy. What applies to the prime physical wants will apply more largely to the goods which supply 'higher' wants. For, as one ascends from the purely animal to the spiritual wants, the divergences in capacity of utilisation will grow. This does not necessarily imply very wide differences in the aggregate quantity of wealth which can be usefully consumed by different persons, because deficiencies in some tastes or capacities may be compensated by development of others. Moreover, the widest personal differences will usually lie outside the range of economic satisfaction. Yet even among economic consumers there will be considerable differences in the amount of organic service or satisfaction that different persons can get out of the same amount of goods. A noble work of art, as Ruskin insisted, has no value for primitive peasants without cultivated tastes. The finest library of serious literature has little value to-day in an ordinary English industrial town. But it is needless to multiply examples to illustrate the truth that the vital value got from any stock of consumable wealth must depend upon the capacity of those into whose hands it passes to make a good use of it. In other words, it depends upon how far the consumer has acquired the art of consumption. Nor is this merely a question of developing and cultivating sound tastes in a class or a people. It is often a matter of knowledge how to extract and utilise the utility which goods contain. It is sometimes pointed out that over 90 per cent of the heating power of coal burned in domestic fires is wasted. Improved grates, or the substitution of some central heating system, might stop a considerable portion of this waste, securing an increase of heating power and of its vital value out of each ton burned.

§ 2. Until we know then 'What are the concrete goods represented by the £2,000,000,000 income? How are they apportioned among different classes of the consuming public? How far are those who get these goods qualified to get the vital value out of them?' we cannot compute, even in general terms, the aggregate human utility they carry.

Our calculus of the human utility of consumption will thus in

form and method closely correspond with our calculus of the human cost of production. Taking as the subject-matter of our analysis the goods and services constituting the real income of the nation, our analysis of production endeavoured to apply two criteria, one relating to the Arts of Production actually employed, the other to the Distribution of the productive efforts involved in the employment of these arts. Similarly, our analysis of consumption rests upon the application of like criteria to the Arts of Consumption and the Distribution of consuming power.

In the productive analysis, considerations of the methods of industry, in relation to the quantity of creative and imitative, interesting and repellent work, the use of machinery and subdivided labour, the elements of forethought, risk-taking, and organisation, length of the work-day, regularity of employment, apportionment of routine industry among the grades and classes of producers, are found to be the main determinants of the sum of human costs. A similar analysis, applied to the consideration of the standards and methods of consumption prevailing among the different grades and classes of consumers, and to the distribution of consuming power among these classes as to amount and regularity, will yield a sum of human utility.

But in approaching the arts of consumption, we find they have not developed in the same way as the arts of production.

Starting from primitive society with the practically self-sufficing family-group, where everybody took a hand in the different sorts of work and a share in the consumption of the different products, we find ourselves carried along a career of continual differentiation of labour not attended by any corresponding differentiation of consumption. Industry passes into large co-operative forms outside the single family, with constantly finer division of labour. But consumption is still chiefly carried on within the limit of the single family,¹ and, so far from being specialised, it becomes more generalised. This contrast of man

¹ Collective or coöperative consumption outside the home or family is of course increasing. Not only have we municipal supplies for public use, e. g. schools, libraries, museums, parks, baths, lighting, etc., but many forms of private expenditure of income on educational, recreative, philanthropic and other coöperative modes of consumption.

as producer and consumer is of the first importance. Modern industrial evolution shows a man becoming narrower and more specialised on his producing side, wider and more various on his consuming side. As worker, he is confined to the constant repetition of some section of a process in the production of a single class of article. As consumer, he is in direct contact with thousands of different sorts of workers in all parts of the world, and by his various consumption applies a direct stimulus which vibrates through the whole industrial system. As producer he is 'the one', as consumer 'the many'.

This diverging tendency in the economic evolution of man has important human implications which will concern us later. At present it concerns us in its bearing upon the arts of consumption.

§ 3. The great complex unit of productive activities which engaged our attention was the Business. Productive economy, the amount of human cost involved in the production of a given quantity of goods, depended, as we saw, upon the structure and working of this Business. What is the consumptive unit that corresponds to the Business? It is the Family, or Home, regarded on its economic side. There is an economy of consumption in the family standard of life as important for social welfare as the economy of production in the Business. As the former stands towards costs of Production, so the other stands towards utility of Consumption. As the economy of Production chiefly consists in minimising cost, so the economy of Consumption should consist in maximising utility. But the standard of consumption has in modern times not been subjected to the same forces as have operated upon production. Though in the beginning, as we saw, both were natural, organic and related processes, the modern rationalisation of industry has not been accompanied by a corresponding rationalisation of consumption. Inventors and transformers of industry have not had their counterpart in consumption. A hundred times the quantity of thought and effort has gone into the recent evolution of a single industry, such as cotton or chemicals, that has gone into the improvement of consumption. It is not difficult to understand the reasons of the great conservatism of the consumptive arts. In primitive societies, where each family is a self-sufficing eco-

nomie unit, or where division of labour is on the simplest lines, the industrial arts are almost as conservative as the methods of consumption. The adoption of a new way of working is nearly as difficult as the adoption of a new want. Custom rules both with an almost equal sway, though even at this stage its hold upon the organic feelings will be somewhat stronger on the consuming side, especially in matters of food and of family or tribal ritual. It will be a little easier to use a new sort of snare, or to change the shape of a pot or basket, than to take to a new head-gear or a new way of cooking meat. But when the industrial arts have advanced a certain way, two forces combine to break the bond of custom and to encourage experiments and improved methods. While consumption continues to be carried on in a number of simple actions involving no considerable effort or conscious attention, industry has passed into a related series of processes of considerable duration and involving many separate acts of conscious effort and attention. The production of an article will thus present a far larger number of opportunities for change than its consumption, and there will be a greater likelihood that advantageous changes will be tried and adopted. A new idea of saving labour, the chance discovery of some new material, will be approved more readily than any suggestion for some new food or an unaccustomed article of clothing. For, in the former case, the reasoning faculty is of necessity alive and operative to some degree, and the gain of the change can be realised experimentally, while in the latter case, the reasoning faculty is hardly awake, and any novelty of consumption is apt to have an initial barrier of natural aversion to overcome.

But there is another reason for the easier progress of the productive costs. 'In proportion as work passes into the shape of an organised business, administered by an employer for profit, the control of any of its processes by primitive custom or taboo tends to disappear. For the rationalism involved in the profitable conduct of the business compels the employer to break any traditional barriers obstructing the adoption of profitable reforms. Though there are doubtless many reforms of the consumptive arts as humanly economical and profitable as any of the great industrial reforms, there is not the same concentrated

motive of large immediately realised gains to urge their claims on any body of consumers. Not only are the gains from an improvement in production more immediate, more concrete and more impressive, but the risks and inconveniences of the change are largely borne by others than the reformer, viz. his employees, or his shareholders. The consumer, on the other hand, has himself to bear all risks and inconveniences involved in the abandonment of an old article or method of consumption, or the adoption of a new one. Finally, it must be remembered that the actual risks attending an innovation are greater for the consumer. For the modern producer is a skilled specialist in the particular art of production in which he is engaged, the consumer is an unskilled amateur in a more general art, possessing little knowledge and no effective power of organising for his self-defence.

§ 4. The fact that the monetary profit of producers is the principal determinant of most changes in the nature of consumables and the standards of consumption is one of the most serious sources of danger in the evolution of a healthy social economy. The present excessive control by the producer injures and distorts the art of consumption in three ways. 1. It imposes, maintains and fosters definitely injurious forms of consumption, the articles of 'illth'. 2. It degrades or diminishes by adulteration, or by the substitute of inferior materials or workmanship, the utility of many articles of consumption used to satisfy a genuine need. 3. It stimulates the satisfaction of some human wants and depresses the satisfaction of others, not according to their true utility, but according to the more or less profitable character of the several trades which supply these wants.

The prevalence of many of the most costly social evils of our time, war, drink, gambling, prostitution, overcrowding, is largely attributable to the fact that their material or trade appliances are sources of great private profit. Such trades are the great enemies of progress in the art of life, and the rescue of the consuming public from their grip is one of the weightiest problems of our time. Two methods of defence are suggested. One is the education and coöperation of consumers. But while educa-

tion may do much to check the consumption of certain classes of 'illth', it can hardly enable the consumer to cope with the superior skill of the specialist producer by defeating the arts of adulteration and deterioration which are so profitable. Consumers' Leagues can perhaps do something to check adulteration and sweating, by the employment of skilled agents. But it will remain very difficult for any such private action to defeat the ever-changing devices of the less scrupulous firms in profitable trades. The recognition of these defects of private action causes an increased demand for public protection, by means of legislative and administrative acts of prohibition and inspection. The struggle of the State to stamp out or to regulate the trades which supply injurious or adulterated foods, drinks, and drugs, to stop gambling, prostitution, insanitary housing, and other definitely vicious businesses, is one of the greatest of modern social experiments. Though the protection of the consumer is in many cases joined with other considerations of public order, it is the inherent weakness of the consumer, when confronted by the resources of an organised group of producers, that is the primary motive of this State policy. How far the State protection is, or can be made effective, is a question too large for discussion here. It must suffice to observe that the conviction that the private interests of producers will continue to defeat all attempts at State regulation in socially 'dangerous trades' furnishes to socialism an argument on which there is a tendency to lay an ever greater stress.

§ 5. These reflections are necessary as preliminary to the consideration of the statics and dynamics of consumption in any nation or class. For they represent the most important class of disturbing influences in the evolution of standards of consumption.

Now in considering the proper mode of estimating the human utility contained in our £1,700,000,000 worth of 'consumables', we must consider, first, the validity of the standards of consumption in which they are incorporated. If we have grounds for believing that actual standards of consumption are moulded by the free pressure of healthy organic needs, evolving in a natural and rational order towards a higher human life, there will be a

presumption favourable to the attribution of a high measure of human utility to the aggregate income. In this enquiry we may, therefore, best start by considering the evolution of wants and modes of satisfying them, as reactions of the half-instinctive, half-rational demands of man upon his environment. Human animals, placed in a given environment (with some power of moving into another slightly different one or of altering slightly that in which they are) develop standards of work and of consumption along the lines of 'survival value'. The earliest stages in the evolution of both standards, consumption and industry, must be directed by the conditions of the physical struggle for life. The modern historical treatment of origins applies this principle in the analysis of physical environments, in which Le Play and Buckle have done such valuable pioneer work, and which such thinkers as Professor Geddes have carried further in their schemes of regional survey.

Though the fundamental assumption which seems to underlie this method, at any rate in its fulness, viz. that there is only one sort of mankind and that all the differences which emerge in history, whether of 'racial' character or of institutions, are products of environment, is open to question,¹ the dominant part played by physical environment in determining the evolution of economic wants and satisfactions, is not disputed.

Like other animals, men must apply themselves to obtain out of the immediate physical environment the means of maintenance—the food, shelter and weapons, the primitive tools, which enable them to work and live at all. If we consider separately the consumptive side of this economy, we seem to grasp the idea of an evolution of a standard of consumption, moulded by the instinctive selection of means to satisfy organic needs of the individual and the species. The sorts of food will be those obtained by experiments upon the flora and fauna of the country, guided mainly by 'instinct', though some early conscious cunning of selection and of cultivation will serve to improve and increase the supplies. The clothing will consist of furs or plaited fibres got from the same natural supplies. The shelter will con-

¹ For the fullest and most recent exposition of this theory see Mr. J. M. Robertson's *The Evolution of States* (Watts & Co.).

sist of an easy adaptation of trees, caves or other protective provisions of nature. Even the early tools, weapons and domestic utensils, though admitting some more rational processes of selection and adaptation, will remain half-instinctive efforts to meet strong definite needs. So long as we are within this narrow range of primary animal wants, there is perhaps little scope for grave errors and wastes in standards of consumption. Doubtless mistakes of omission are possible, e. g. a tribe may fail to utilise some abundant natural supply of food which it is capable of assimilating. But such omissions will probably be rare, at any rate in cases where population comes to press upon the food supply, so evoking experiments in all natural resources. Grave errors of commission, e. g. the adoption of poisonous ingredients into the supply of food or other necessities, will be impossible, so long as we are dealing with factors of consumption which have a definite survival value. This seems to apply, whether we attribute some instinctive wisdom or some more rational process of selection as the evolutionary motive. In either case we have substantial guarantees for the organic utility of most articles which enter the primitive standard of consumption. This view is, of course, quite consistent with the admission that in the detailed operation of this economy there will be a large accumulation of minor errors and wastes. The most accurate instinct affords no security against such losses: indeed the very strength of an animal instinct entails an inability of adaptation to eccentricities or irregularities of environment. No one can doubt this who watches the busy bee or the laborious ant pursuing their respective industries.

§ 6. If man had always lived either in a stationary or a very slowly changing environment, he would have remained a creature motivated almost wholly by specific instincts along a fairly accurate economy of prescribed organic needs. The substitution of reason for a large part of these specific instincts was evoked by the necessity of adaptation to changes and chances of environment so large, swift or complex, that specific instincts were unfitted to cope with them. Hence the need for a general 'instinct' of high adaptive capacity, endowed with a power of central control operative through the brain. The net biological

economy of this evolution of a central conscious 'control', in order to secure a better adjustment between organism and environment, carries us to a further admission regarding the organic value of the basic elements in a standard of consumption.

✓ By the use of his brain man not merely selects from an indefinitely changing environment foods and other articles conducive to survival, but adapts the changing environment to his vital purposes. He alters the physical environment, so as to make it yield a larger quantity and variety of present and future goods, and he combines these goods into harmonious groups contributing to a 'standard' of consumption. In this adaptive and progressive economy, evolving new needs and new modes of satisfying old needs, shall we expect to find the same degree of accuracy, the same immunity from serious error as in the narrower statical economy of 'instinctive' animalism?

In the processes of adapting external nature for the provision of present, still more of future, goods, in discovering new wants and methods of satisfying them, and in assimilating the new wants in a standard of consumption, there will necessarily be larger scope for error. But so long as the inventive and progressive mind of man confines the changes, alike of industry and of consumption, to the sphere of simple material commodities having a close and important bearing upon physical survival, the limits of error and of waste must continue to be narrow. All such progress will require experimentation, and experiment implies a possibility of error. But at this early stage in the evolution of wants, any want, or any mode of supplying a want, which is definitely bad, will be curbed or stamped out by the conditions of the struggle for life. A tribe that tries hastily to incorporate a tasty poison in its diet must very soon succumb, as many modern instances of races exposed to the attraction of 'fire-water' testify. Thus far it may be admitted that organic utility will assert its supremacy as a regulative force, not only in the rejection of the bad, but in the selection of the good. The low standard of consumption of a prosperous caveman or of a primitive pastoral family must conform to an economy of high utility. Not only would all his ingredients of food, clothes, shelter, firing

and utensils, be closely conducive to physical survival, but they would be closely complementary to one another. This complementary structure of the standard of consumption follows from the organic nature of man. Unless all his organic needs are continuously met he perishes. While, therefore, he may know nothing of the distinctions which science later will discover in the necessary constituents of food, he must have worked out empirically a diet which will give him some sufficiently correct combination of proteids, carbohydrates and fats, and in the forms in which he can assimilate them. So also with his clothes, if he wears them. No savage could possibly adopt, for ordinary wear, costumes so wasteful and so inconvenient as flourish in civilised societies. Similarly with housing and utensils. And not only must the articles belonging to each group of wants be complementary, but the groups will themselves be complementary. The firing will have relation to the times and sorts of feeding: clothing and shelter will be allied in the protection they afford against weather and enemies: tools and weapons will be even more closely related.

Thus in the earlier evolution of wants, when changes, alike of ways of living and ways of work, are few and slow and have a close bearing on survival, a standard of consumption will have a very high organic value.

§ 7. But when man passes into a more progressive era, and a definite and fairly rapid process of civilisation begins, the brain continually devising new wants and satisfactions, we seem to lose the earlier guarantees of organic utility. When the standard of consumption incorporates increasing elements, not of necessities but of material conveniences, comforts and luxuries, and adds to the satisfaction of physical desires that of psychical desires, how far may it not trespass outside the true economy of welfare? So long as the requirements of physical survival dominate the standard, it matters little whether animal instinct or some more rational procedure maintains the standard. But when these requirements lose control, and a standard of civilised human life contains ever larger and more numerous elements which carry little or no 'survival value', the possibilities of error and of disutility appear to multiply.

If civilisation, with its novel modes of living, be regarded as an essentially artificial process, in which considerations of organic welfare exercise no regulative influence, there seems no limit to the amount of disutility or illfare which may attach to the consumption of our national income. This appears, indeed, to be the view of some of our social critics. Even those who do not go so far as Mr. Edward Carpenter in diagnosing civilisation as a disease, yet assign to it a very wide departure from the true path of human progress. Indeed, it would be idle to deny that this income, not only in the terms of its distribution but also in its consumption, contains very large factors of waste and disutility, and that the higher, later elements carry larger possibilities of waste than the earlier.

But this admission must not lead us to conceive of the so-called 'artificial' factors in a standard of consumption as the products, either of chance, or of some normal perversity in the development of tastes which foists upon consumption elements destitute of human value.

For there are two possibilities to bear in mind. The first is that even in the higher, less material, more 'artificial' ingredients of consumption, the test of 'survival value' may still in some measure apply. A too comfortable or luxurious mode of life may impair vitality, lessen the desire or capacity of parenthood, or may introduce some inheritable defect injurious to the stock. Such results may follow, not merely from bad physical habits, but from what are commonly accounted good intellectual habits. For it is believed that the high cerebration of an intellectual life is inimical to human fertility. Again, so far as sexual attractions determine marriage and parenthood, modes of living which either impair or overlay the points of attraction will continue to be eliminated by natural selection. Habits of living, which damage either manliness or womanliness will thus continue to be curbed by Nature.

But Nature may possess another safeguard of a more general efficacy. For any intelligible theory of evolution, either of an individual organism or a species, involves the presence and operation of some central power which, working either through particular instincts, as in lower animals, or largely through a co-

ordinating 'reason', as in man, not only conserves but develops. This organic purpose, or directive power, cannot be regarded as confined to mere physical survival, either of the individual or the species. It must also be considered as aiming at development, a fuller life for individual and species. Now the evolution of human wants and standards of consumption must be regarded as an aspect of this wider process of development. Whatever measure, then, of control be accorded to the central directive power in organic development, must operate to determine economic wants and economic standards of life. If such directive action were infallible, securing, through the central cerebral control, a completely economical policy of conservation and development, no problems of a distinctively social or moral character would arise. The existence of error, waste, sin, attests the fallibility of this directive power. Aiming to keep the individual and the species to lines of conduct that are psycho-physically beneficial, its directions are either falsified or set aside by the force of some particular impulse or emotion, usurping or defying the central authority. The liability to such error and waste appears to grow *pari passu* with organic development. As reasoning man with his more complex life has more chances of going wrong than lower animals guided by instincts along a narrow life, so with each advance in the complexity of human life these chances of error multiply. The explanation of this expanding scope for error is not that reason is an inferior instrument to instinct. Even in matters of 'life and death', with which animal nature is primarily concerned, reason must be accounted in the main an improvement upon instinct. For though a particular instinct works more easily and accurately in an absolutely uniform environment, reason deals more successfully with eccentricities and changes. Its essential quality is this superior adaptiveness. - Therefore, in handling an environment, which not only is various and ever changing by its own nature, but is made more various and more changing by the interference of man, the human reason must work more successfully even for purposes of physical survival than any array of instincts could. In the struggle for a sufficient regular supply of food, or in the war against microbes, the rationalism of modern science and industry performs 'sur-

vival' work for which the exactitude of animal instinct is essentially unfitted.

The view then that error and waste necessarily increase with the development of human society is not based upon any inferiority of reason to instinct. It is due to the fact that, as humanity evolves further, a smaller proportion of its total energy is needed for mere survival, and a larger proportion is free for purposes of specific and individual progress. Now, the natural economy for survival, whether working by instinct or by reason, is far more rigorously enforced than the economy for progress. So long as the arts of industry are so crude as to absorb almost all the available work of man in provision for survival, the scope for waste is rigorously circumscribed. But as industry develops to a stage that yields a considerable 'surplus' beyond the needs for mere survival, the possibility of waste increases. For, then, it becomes possible for individuals, or groups within a community, to divert to purposes of excessive personal enjoyment the surplus of productive power which, 'economically' directed by Nature or Reason, would have served to raise the general level of well-being.

The widest aspect of this phenomenon does not concern us here. It will be the subject of later commentary. We are here concerned only to explain why it is likely that, as wealth grows, waste also will grow, and why the higher standards of comfort in a nation or a class will contain a larger proportion of socially wasteful or injurious goods. Nature's guarantee of the sound organic use of the basic constituents of a standard of consumption does not extend with the same force to the conveniences, comforts and luxuries built upon this basis. Though one need not assume that no organically sound instinct of selection or rejection operates in the adoption of new comforts or luxuries, that natural safeguard must certainly be accounted weaker and less reliable. As we study presently the actual modes by which the higher ingredients are adopted into a class standard, we shall see that this assumption is borne out by experience, and that considerations of organic welfare play a rapidly diminishing part in determining the spread of most of the higher forms of material and intellectual consumption.

CHAPTER X

CLASS STANDARDS OF CONSUMPTION

§ 1. We may now apply these general considerations regarding the evolution of wants to class and individual standards of consumption. In a concrete class standard of consumption we may conveniently distinguish three determinant factors: 1st. The primary organic factor, the elements in consumption imposed by general or particular conditions of physical environment, such as soil, climate, in relation to physical needs. 2nd. The industrial factor, the modifications in organic needs due directly or indirectly to conditions of work. 3rd. The conventional factor, those elements in a standard of consumption not based directly upon considerations of physical or economic environment but imposed by social custom.

So far as the first factor is concerned, we are for the most part in the region of material necessities in which, as we have already seen, the organic securities for human utility are strongest. Where any population has for many generations been settled in a locality, it must adapt itself in two ways to the physical conditions of that locality. Its chief constituents of food, clothing, shelter, etc. must be accommodated to all the more permanent and important conditions of soil, climate, situation and of the flora and fauna of the country. A tropical people cannot be great meat-eaters or addicted to strong drinks, though the materials for both habits may be abundant. An arctic people, on the other hand, must find in animal fats a principal food, and in the skins of animals a principal article of clothing. In a country where earthquakes frequently occur, the materials and structure of the houses must be light. In the same country the people of the mountains, the valleys, the plains, the sea-shores, will be found with necessary differences in their fundamental standard of consumption. It is, indeed, self-evident that physical environment must exercise an important selective and rejective

power represented in the material standard of consumption. So far as man can modify and alter the physical environment, as by drainage, forestry, or the destruction of noxious animals or bacteria, he may to that extent release his standard of consumption from this regional control

Primitive man, again, and even most men in comparatively advanced civilisations, are confined for the chief materials of food, shelter and other necessities, to the resources of their country or locality. They must accommodate their digestions and their tastes to the foods that can be raised conveniently and in sufficient quantities in the neighbourhood: they must build their houses and make their domestic and other utensils out of the material products within easy reach. The early evolution of a standard of necessary consumption, working under this close economy of trial and error, appears to guarantee a free, natural, instinctive selection of organically sound consumables.

The primary physical characteristics of a country, also of course, affect with varying degrees of urgency those elements in a standard of consumption not directly endowed with strong survival value, those which we call conveniences, comforts, luxuries. The modes and materials of bodily adornment, the styles of domestic and other architecture, religious ceremonies, forms of recreation, will evidently be determined in a direct manner by climatic and other physical considerations.

Recent civilisation, with its rapid extensive spread of communications, and its equally rapid and various expansion of the arts of industry, has brought about an interference with this natural economy which has dangers as well as advantages. The swift expansion of commerce brings great quantities of foods and other consumables from remote countries, and places them at the disposal of populations under conditions which give no adequate security for organic utility of consumption. Under an economy of natural selection exotics are by right suspect, at any rate until time has tried them. The incorporation of articles such as tea and tobacco in our popular consumption has taken place under conditions which afford no proper guarantee of their individual utility, or against the bad reactions they may cause in the whole complex standards of consumption.

The back stroke of this commercial expansion is seen in such occurrences as the deforestation of great tracts of country and the alteration of the climatic character, with its effects upon the lives of the inhabitants.

But though certain errors and wastes attend these processes of commercialism and industrialism, they must not be exaggerated. There is no reason to hold that mankind in general has been so deeply and firmly specialised in needs and satisfactions by local physical conditions that he cannot advantageously avail himself of the material products of a wider environment. Though the digestive and assimilative apparatus may not be so adaptable as the brain, there is no ground for holding that conformity during many generations to a particular form of diet precludes the easy adoption of exotic elements often containing better food-properties in more assimilable forms. A Chinese population, habituated to rice, can quickly respond in higher physical efficiency to a wheat diet, nor is the fact that bananas are a tropical fruit detrimental to their value as food for Londoners.

How far the purely empirical way in which foods and other elements in a necessary standard have been evolved can be advantageously corrected or supplemented by scientific tests, is a question remaining for discussion after the other factors in standards of consumption have been brought under inspection.

§ 2. Industrial conditions, themselves of course largely determined by physical environment, affect class and individual consumption in very obvious ways. Each occupation imposes on the worker, and indirectly upon all the members of his family, certain methods of living. Physiological laws prescribe many of those methods. A particular sort of output of muscular or nervous energy demands a particular sort of diet to replace the expenditure. The proper diet of an agricultural labourer, a mill operative and a miner, will have certain recognised differences. Muscular and mental, active and sedentary, monotonous and interesting work, will involve different amounts and sorts of nourishment, and different expenditures for leisure occupations. These differences will extend both to the necessities and the higher elements in standards of consumption. Industrial re-

quirements will stamp themselves with more or less force and exactitude upon each occupation. An analysis of budgets would show that the standard of the clergyman was not that of the merchant or even of the doctor, and that the same family income would be differently applied. The stockbroker will not live like the mill-owner, nor the journalist like the shopkeeper. So right through the various grades of workers. The skilled mechanic, the factory hand, the railway man, the clerk, the shop-assistant, the labourer, will all have their respective standards, moulded or modified by the conditions of their work: their needs and tastes for food, clothing, recreation, etc., will be affected in subtle ways by that work.

'Productive' consumption is the term given by classical political economy to that portion of consumption applied so as to maintain or improve the efficiency of labour-power in the worker and his family. Necessaries alone were held absolutely productive, conveniences and comforts were dubious, luxuries were unproductive. Regarded even from the commercial standpoint, it was a shallow analysis, confined to a present utilisation of immediately useful commodities, and ignoring the reactions upon future productivity of a rise in education and refinement. It belonged to an age before the economy of high wages or the moral stimuli of hope and an intelligent outlook upon life had won any considerable recognition as 'productive' stimuli.

But from the standpoint of our analysis the defect of this treatment is a deeper one. For us the distinction between productive and unproductive consumption is as fundamental as in the older economic theory. The difference lies in the conception of the 'product' that is to give a meaning to 'productive'. Productive consumption, according to the older economic theory, was measured by the yield of economic productivity, according to our theory by the yield of vital welfare. The two not merely are not identical, they may often be conflicting values.

A diet productive of great muscular energy for a navvy, foundryman or drayman, may produce a coarse type of animalism which precludes the formation of a higher nervous structure and the finer qualities of character that are its spiritual counterpart. The industrial conditions of many productive employ-

ments are notoriously such as to impair the physique and the muscle of the workers engaged in them, and there is no ground for assuming that the habits of consumption, conducing to increased productivity in such trades, carry any net freight of human utility.

Nor is it only in manual labour that the industrial influences moulding a standard of consumption may damage its human quality. Much sedentary intellectual work involves similarly injurious reactions upon modes of living. The physical abuses of athleticism, stimulants and drugs, are very prevalent results of disordered competition in intellectual employments. But, as bad elements in standards of expenditure, the intellectual excesses, the fatuous or degrading forms of literature, drama, art, music, which this life generates, are perhaps even more injurious. One of the heaviest human costs of an over-intellectual life to-day is its 'culture'.

§ 3. When we come to 'conventional' elements in standards of comfort, we enter a region which appears to admit an indefinite amount of waste and error.

The very term 'conventional', set as it is in opposition to 'natural', indeed, suggests an absence of organic utility. We hear of 'conventional necessities' even in the lowest levels of working-class expenditure. I presume that the expenditure in beer, tobacco, upon sprees or funerals, or upon decorative clothing, would be placed in this category.

From the purely economic standpoint such expenditure has been accounted either waste, or, even worse, 'disutility'.

It is often argued that a labouring family on 21s. per week could be kept in physical efficiency, if every penny were expended economically in obtaining 'organic value'. This is the ideal of a certain order of advocates of thrift and temperance. Whole generations of economists have accumulated easy virtue by preaching this rigorous economy for the working-classes. It has always seemed possible to squeeze out of the standard of any working-class enough of the conventional or superfluous to justify the opinion that most of the misery of the poor is their own fault, in the sense that, if they made a completely rational use of their wages, they could support themselves in decency. The amount

spent by the workers on drink alone would, it is often contended, make ample provision against most of the worst emergencies of working-class life.

Now there are several comments to be made on this attitude towards conventional expenditure. 1. As one ascends above the primary organic needs, the evolution of desires becomes less reliable and more complicated: the element of will and choice and therefore of choosing badly, becomes larger. Some condiments are useful for assisting the digestion of primary foods, but it is easier to make mistakes in condiments than in staple foods. So with all the higher and more complex wants. As one rises above the prime requisites and conveniences, organic instincts, or tastes directly dependent on them, play a diminishing part as faithful directors of consumption. This natural guidance does not indeed disappear. The evolution of a human being with finer nervous structure, and with higher intellectual and moral needs and desires related to that structure, is a fairly continuous process. The finest and best-balanced natures thus carry into their more complex modes of satisfaction a true psycho-physical standard of utility. But it is already admitted that the liability to go wrong is far greater in those modes of expenditure which are not directly contributory to survival. This is the case, whether individual tastes or some accepted convention determines the expenditure.

This is so generally recognised that it is likely that the organic utility of personal tastes on the one hand, custom and convention on the other, has been unduly disparaged. The temper of economists in assessing values has been too short-sighted and too inelastic. A good deal of personal expenditure that is wasteful or worse when taken on its separate merits may be justified as a rude experimental process by which a person learns wisdom and finds his soul. What is true of certain freakish personal conduct is probably true also of those conventional practices, in which whole societies or classes conduct their collective experiments in the art of living.

A too rigorous economy, whether directed by instinct or reason, which should rule with minute exactitude the expenditure of individuals or societies, in order to extract from all expenditure

of income the maximum of seen utilities, would be bound to sin against that law of progress which demands an adequate provision for these experimental processes in life which, taken by themselves, appear so wasteful.

Social psychology brings a more liberal and sympathetic understanding to bear upon some of the practices which to a short-sighted economist appear mere wasteful extravagance, destitute of utility and displacing some immediately serviceable consumption. Let me take some notable examples from current working-class expenditure. The lavish expenditure upon bank-holidays, in which large classes of wage-earners 'blow' a large proportion of any surplus they possess beyond the subsistence wage, is the subject of caustic criticism by thrifty middle-class folk. But may not this holiday spirit, with a certain abandon it contains, be regarded as a 'natural' and even wholesome reaction against the cramping pressure of routine industrialism and the normal rigour of a close domestic economy? It may not, indeed, be an ideally good mode of reaction, may even contain elements of positive detriment, and yet may be the vent for valuable organic instincts seeking after those qualities of freedom, joy and personal distinction that are essential to a life worth living.¹

Or take the gravest of all defects of working-class expenditure, the drink-bill. This craving, hostile as it is to the physical and moral life of man, is not understood, and therefore cannot be effectively eradicated, unless due account is taken of certain emotional implications. The yielding to drink is not mere brutality. Brutes do not drink. It is in some part the response to an instinct to escape from the imprisonment in a narrow cramping environment which affords no scope for aspiration and achievement. It may indeed be said that the drinker does not aspire and does not achieve. He is doubtless the victim of an illusion. But it is a certain dim sense of a higher freer life that lures him on. 'Elevation' is what is sought.

'Kings may be blessed but Tam was glorious
O'er a' the ills o' life victorious.'

¹ On the side of Consumption as of Production a progressive society that has not abandoned itself to excessive rationalism will recognise the desirability of keeping a scope for '*bonne chance*' and '*hazard*'. Cf Tarde, I., p. 130.

Or take still another item of working-class expenditure frequently condemned as a typical example of extravagance, the relatively large expense of funerals. Is this to be dismissed off-hand as mere wanton waste? A more human interpretation will find in it other elements of meaning. In the ordinary life of 'the common people' there is little scope for that personal distinction which among the upper classes finds expression in so many ways. The quiet working-man or woman has never for a brief hour through a long lifetime stood out among his fellows, or gathered round him the sympathetic attention of his neighbours. Is it wholly unintelligible or regrettable that those who care for him should wish to give this narrow, thwarted, obscure personality a moment of dignity and glory? The sum of life is added up in this pomp of reckoning, and the family is gathered into a focus of neighbourly attention and good-feeling, the outward emblems of honour are displayed, and a whole range of human emotions finds expression. Such excess as exists must be understood as a natural fruit of those aspiring qualities of personality which, cramped in their natural and healthy growth by narrowness of opportunity, crave this traditional outlet.

In fact, the more closely we study the conventional factors in consumption, the less are we able to dismiss them out of hand as mere extravagance or waste. Some organic impulse, half physical, half psychological, nearly always enters into even the least desirable elements. A margin of expenditure, either conventional or expressing individual caprice,¹ which serves to evoke pleasure, to stir interest, and above all to satisfy a sense of personal dignity, even though at the expense of some more obvious and immediate utilities, may be justified by considerations of individual and social progress.

§ 4. Such considerations must not, however, be pressed very far in the defence even of the most firmly-rooted elements of conventional consumption. For, though the deeper organic forces which work through 'natural selection' must eliminate

¹ Though the term 'conventional' appears formally to preclude the play of individual taste or judgment, it is in fact only in such expenditures that these qualities obtain scope for expression. For though convention prescribes the general mode of such expenditure, it leaves a far larger scope for personal choice and capricious variation than in the more necessary elements of expenditure.

the worst or most injurious modes of expenditure from the permanent standard of a race or class, it may leave elements fraught with grave danger. For neither the animal nor the spiritual nature of man is equipped with a selective apparatus for testing accurately for purposes of organic welfare the innumerable fresh applicants for 'consumption' which appear as the evolution of wants, on the one hand, and of industries upon the other, becomes more complex and more rapid. An extreme instance will enforce my meaning. To take a Red Indian or a Bantu from a natural and social environment relatively simple and staple, and to plunge him suddenly into the swirl of a modern Western city life is to court physical and moral disaster. Why? Because the pressures of animal desires or the emotions of pride and curiosity, which were regulated by effective 'taboos' in the primitive life from which he is drawn, now work their will unchecked. For the 'taboos' of civilised society are both ill-adapted to the emotional texture of his nature, and in their novelty and complexity are not adequately comprehended. But even for those born and bred in the environment of a rapidly changing civilisation there are evidently great hazards. Not only individual but widely collective experiments in novelties of consumption will often be injurious. This may be explained in the first instance as due to the perversion or defective working of the 'instincts' originally designed to protect and promote the life of the individual and the species. An animal living upon what may be termed unmodified nature is possessed of instincts which make poisonous plants or animals repellent to its taste. A man living in a highly modified environment finds such shreds of instinctive tastes as he possesses inadequate to the risk of rejecting the fabricated foods brought from remote quarters of the earth to tempt his appetite. If this holds of articles of food, where errors may be mortal and where some protection, however insufficient, is still furnished by the palate and the stomach, still more does it hold of the 'higher' tastes comparatively recently implanted in civilised man. 'Bad tastes' thus may introduce the use of books or art that disturb the mind without informing it, recreations that distract and dissipate our powers without recreating and restoring them. Nor does the 'social organism' furnish reliable checks

which shall stop the spread of individual errors into conventional consumption.

§ 5. The question of individual errors and wastes in the process of evolving standards of consumption must not detain us. For though it rightly falls within the scope of a fully elaborated valuation of consumption, it must not be allowed to intrude into our more modest endeavour to discuss the several grades of wants which comprise a class standard of consumption. The relative size of the wastes or defects of the conventional factors in a class standard will not indeed depend upon the mere addition of the perversion of the separate choices of its individuals. For a convention is not produced by a mere coincidence of separate actions of individual desire.

It may be well here to revert to the distinction which we found convenient to employ in our analysis of the human value of different forms of work, viz. the distinction between creation and imitation. Here it will take shape in an enquiry as to the ways in which new wants are discovered and pass into conventional use. Let us take for an example the case of a medicine which has become a recognised remedy for a disease. Among animals or 'primitive' man the habit of eating a curative herb may be regarded as due to an organic instinct common to each member of the herd or group. Such consumption, however, would not really fall within the category of our 'conventional consumption'. It would in effect be confined to a limited number of articles containing strong elements of 'survival value', in a pre-economic period, though, as soon as tribal society began to evolve the medicine man, his prescriptions would add many elements of waste and error. But the consumables whose origin we are now considering must be regarded as involving invention or discovery, and conscious imitation or adoption by the group. Unless we suppose that the chewing of cinchona bark had a backing of instinctive adaptation, and so passed by tradition into later ages of Indian life, we must hold that the first beginnings of the use of quinine as a cure for intermittent fevers in South America were due either to chance or to early empiricism in treatment. ~ Some person, probably enjoying distinction in his tribe, tried cinchona bark and recovered of his fever, others tried it upon this example

and got benefit, and so the fame of the remedy spread first from a single centre, and afterwards from a number of other personal centres by conscious imitation. Or, similarly, take the adoption of some article of diet, such as sugar or tobacco, which is an element not of prime physical utility but of comfort or pleasure. The first men who chewed the sugar-cane, or tried the fumes of the *herba nicotina*, must be deemed to have done so 'by accident'. Liking the result, they repeated the experiment by design, and this personal habit became the customary habit of the group, moulded by a tradition continuously supported by a repetition of the feeling which attended the first chance experience.

Such accretions to a standard of consumption may be regarded as possessing guarantees of utility or safeguards against strong positive disutility in their method of adoption. They have grown into the conventional standard 'on their merits'. Those 'merits' may indeed be variously estimated from the 'organic' standpoint. Quinine has a high organic virtue, sugar perhaps an even wider but less vital virtue, while the virtue of tobacco may be purely superficial and compensated by considerable organic demerits. But both discovery and propagation have been in all these cases 'natural' and 'reasonable' processes, in the plain ordinary acceptance of these terms. Some actual utility has been discovered and recognised, and new articles thus incorporated in a standard of consumption, either for regular or special use, have at any rate satisfied a preliminary test of organic welfare.

If all new habits of consumption arose in this fashion, and the preliminary test could be considered thoroughly reliable, the economy of the evolution of standards of consumption would be a safe and sound one. This hypothesis in its very form indicates the several lines of error discernible in the actual evolution of class standards. A falsification of the standard, involving the admission of wasteful or positively noxious consumables, may arise, either in the initial stage of invention, or in the process of imitative adoption. This will occur wherever the initial or the imitative process is vitiated by an extraneous motive. A very small proportion of medicines in customary use among primitive peoples have the organic validity of quinine. Most of them are 'charms', invented by medicine men, not as the result either

of a chance or planned experiment, but as the work of an imagination operating upon the lines of an empirical psychology, in which the relation of the actual or known properties of the medicine towards the disease play no appreciable part. So a whole magical pharmacopœia will be erected upon a basis of totemist and animist beliefs, mingled with circumstantial misconceptions and gratuitous fabrications, and containing no organic utility. Each addition or variant will begin as an artificial invention and will be adopted for reasons of prestige, authority or fear, carrying none of that organic confirmation which secured its position for quinine. The limit of error in such cases will be that the medicine must not frequently cause a serious and immediate aggravation of the suffering of the patient. The patent or 'conventional' medicines among civilised peoples must be considered in the main as containing a falsification of standard of the same kind, though different in degree. As the primitive medicine man, called upon to cure a fever or a drought, is primarily motivated by the desire to maintain or enhance his personal or caste prestige, while the adoption of his specific into a convention is due to a wholly irrational authority or to a wholly accidental success, so is it with a large proportion of modern remedies. Even in the orthodox branches of the medical profession the process of converting vague empiricism into scientific experiment has gone such a little way as to furnish no guarantee for the full organic efficacy of many of the treatments upon which the patient public spends an increasing share of its income. But as regards the profession there is at any rate some basis of confidence in the disinterested application of science to the discovery of genuine organic utility.

In the patent medicine trade there is very little. Here we have a condition very little better than that of the power of the witch-doctor in primitive society. The maxim '*caveat emptor*' carries virtually no security, for the guidance of the palate is ruled out, while the test of experience, except for purgation or for some equally simple and immediate result, is nearly worthless.

§ 6. When the invention and propagation of a mode of consumption have passed into the hands of a trade, the guarantees of organic utility, the checks against organic injury, are at their

weakest. For neither process is directed, either by instinct or reason, along serviceable channels. Where the commercial motive takes the initiative, there can be no adequate security that the articles which pass as new elements into a standard of consumption shall be wealth, not illth. Where an invention is stimulated to meet a genuinely 'long-felt need', the generality and duration of that need may be a fair guarantee of utility. But this is not the case where the supply precedes and evokes the demand, the more usual case under developed commercialism. Neither in the action of the inventor, nor in the spread of the new habit of consumption, is there any safe gauge of utility. The inventor, or commercial initiator, is only concerned with the question, Can I make and sell a sufficient quantity of this article at a profit? In order to do so, it is true, he must persuade enough buyers that they 'want' the article and 'want' it more than some other articles on which they otherwise might spend their money. To unreflecting persons this, no doubt, appears a sufficient test of utility. But is it? The purchaser must be made to feel or think that the article is 'good' for him at the time when it is brought before his notice. For this purpose it must be endowed with some speciously attractive property, or recommended as possessing such a property. A cheap mercerised cotton cloth, manufactured to simulate silk, sells by its inherent superficial attraction. A new line in drapery 'pushed' into use by the repeated statement, false at the beginning, that 'it is worn', illustrates the second method. In a word, the arts of the manufacturer and of the vendor, which have no direct relation whatever to intrinsic utility, overcome and subjugate the uncertain, untrained or 'artificially' perverted taste of the consumer. Thus it arises that in a commercial society every standard of class comfort is certain to contain large ingredients of useless or noxious consumption, articles, not only bad in themselves, but often poisoning or distorting the whole standard. The arts of adulteration and of advertising are of course responsible for many of the worst instances. A skilled combination of the two processes has succeeded in cancelling the human value of a very large proportion of the new increments of money income in the lower middle and the working-classes, where a growing susceptibility

to new desires is accompanied by no intelligent checks upon the play of interested suggestion as to the modes of satisfying these desires.

Where specious fabrication and strong skilled suggestion co-operate to plant new ingredients in a standard of consumption, there is thus no security as to the amount of utility or disutility attaching to the 'real income' represented by these 'goods'. But this vitiation of standards is not equally applicable to all grades of consumption, or to all classes of consumers. Some kinds of goods will be easier to falsify or to adulterate than others, some classes of consumers will be easier to 'impose upon' than others. These considerations will set limits upon the amount of waste and 'illth' contained in the goods and services which comprise our real income.

First, as to the arts of falsification. Several laws of limitation here emerge. Some materials, such as gold and rubber, have no easily procurable and cheaper substitutes for certain uses. Other goods are in some considerable degree protected from imitation and adulteration by the survival of reliable tests and tastes, touch and sight, in large numbers of consumers. This applies to simpler sorts of goods whose consumption is deepest in the standard and has a strong basis of vital utility. It will be more difficult to adulterate bread or plain sugar to any large extent than sauces or sweets: it will be easier to fake photographs than to pass off plaice for soles. But it cannot be asserted as a general truth that the necessities are better defended against encroachments of adulteration and other modes of deception than conveniences, and conveniences than luxuries. Indeed, there are two considerations that tell the other way. A manufacturer or merchant who can palm off a cheaper substitute for some common necessary of life, or some well-established convenience, has a double temptation to do so. For, in the first place, the magnitude and reliability of the demand make the falsification unusually profitable. In the second place, so far as a large proportion of articles are concerned, he can rely upon the fact that most consumption of necessities lies below the margin of clear attention and criticism. Except in the case of certain prime articles of diet, it is probable that a consumer is more likely to detect some change

of quality in the latest luxury added to his standard than in the habitual articles of daily use, such as his shoe-leather or his soap. In fact, so well recognised is this protection afforded to the seller by the unconsciousness which habit brings to the consumer, that, in catering for quite new habits, such as cereal breakfast foods or cigarettes, the manufacturer waits until the original attractions of his goods have stamped themselves firmly in customary use, before he dares to lower the quality or reduce the quantity.

These considerations make it unlikely that we can discover a clear law expressing the injury of commercialism in terms of the greater or less organic urgency of the wants ministered to by the different orders of commodities. It will even be difficult to ascertain whether the arts of adulteration or false substitution play more havoc among the necessities than among the luxuries of life. In neither is there any adequate safeguard for the organic worth of the articles bought and sold, though in both there must be held to be a certain presumption favourable to some organic satisfaction attending the immediate act of consumption. If a 'law' of falsification can be found at all, it is more likely to emerge from a comparative study not of necessities, conveniences, comforts and luxuries, in a class standard, but of the various sorts of satisfactions classified in relation to the needs which underlie them. Where goods are consumed as soon as they are bought, and by some process involving a strong appeal to the senses, there is less chance for vulgar fraud than where consumption is gradual or postponed, and is not attended by any moment of vivid realisation. Other things equal, one might expect more easily to sell shoddy clothing than similarly damaged food: the adulteration of a jerry-built house is less easily detected, or less adequately reprobated, than that of a jerry-built suit of clothes.

Along similar lines we might, in considering non-material consumption, urge that there are more safeguards for utility in the expenditure upon books or music-hall performances than upon education or church membership. And in a sense this is true. If I buy a book or attend a concert, I am surer to get what I regard as a *quid pro quo* for my expenditure than in the

case of a prolonged process involving many small consecutive acts.

So far as this is true, it means that relics of organic guidance are more truly operative in some kinds of satisfaction than in others, and furnish some better check upon the deception which commercialism may seek to practise. But, of course, our valuation of such checks will depend upon how far we can accept them as reliable tests, not of some short-range immediate satisfaction, but of the wider individual and social welfare. The fact that so many notoriously bad habits can be acquired by reason of an immediate 'organic' attractiveness that is a false clue to the larger welfare, must put us on our guard against accepting any easy law based on the test of 'natural' tastes.

§ 7. But, in considering the degradation of standards of consumption, it is well to bring some closer analysis to bear upon the processes of suggestion and adoption that are comprised in 'imitation'. In analysing the forms of wealth, the goods and services, which are the real income of the nation, in terms of their production, we recognised that, other things equal, the human cost of any body of that wealth varied directly with the amount of routine or purely imitative work put into it, and inversely with the amount of creative or individual work. That judgment, however, we felt bound to qualify by the consideration that a certain proportion of routine work, though in itself perhaps distasteful and uninteresting, had an organic value both for the individual and for society. How far can we apply an analogous judgment to the same body of Wealth on its consumption side? Can we assume that the utility of consumption of any given body of wealth varies directly with the amount of free personal expression which its use connotes, and inversely with the routine or conventional character it bears? Evidently not. The same analysis does not apply. The chief reason for the difference has already been indicated, by pointing out that, in a modern industrial society, each man, as producer, is highly specialised, as consumer highly generalised. The high human costs of routine work were, we saw, a direct result of this specialising process. A little routine work of several sorts, regularly practised, would involve no organic cost, and might indeed yield a fund of posi-

tive utility as a wholesome *régime* of exercise, provided it was not carried so far as to encroach upon the fund of energy needed for the performance of other special work, creative and interesting.

Indeed, the usual economic justification of the excessive division of labour existing at present in advanced industrial societies is that it is essential to yield that large body of objective wealth which, by its distribution, enriches and gives variety to the consumption of all members of the society. The producer is sacrificed to the consumer, the damage done to each man in his former capacity being more than compensated by the benefits conferred upon him in his latter capacity.

The full validity of this doctrine will be considered when we gather together the two sides of our analysis and consider the inter-relations between production and consumption as an aspect of the problem of human values. At present we may begin by accepting variety of consumption as a condition in itself favourable to the maximisation of human welfare. This assumption is not, however, quite self-evident. The routine factors in a standard of consumption (and a standard *quâ* standard consists of routine), so far as they are laid down under the direction of an instinctive or a rational evolution of wants, must be regarded as containing a minimum of waste or disutility. Since they are also the foundation and the indispensable condition for all the 'higher' forms of material or non-material consumption in which the conscious personality of individuals finds expression, they may be held to contain per unit a maximum of human value. From this standpoint there would seem to emerge a law of the economy of consumption, to the effect that the maximum of social welfare would be got from a distribution of wealth which absorbed the entire product in this routine satisfaction of the common needs of life. This economy need not be conceived merely in terms of a uniform standard of material satisfactions. A wider interpretation of life and of necessities might extend it so as to cover many higher grades of satisfaction, all the 'joys that are in widest commonalty spread.' The natural evolution of such an economy of consumption might, it is arguable, yield the greatest quantity of social welfare.

§ 8. But a high uniform level of welfare throughout society

does not exhaust the demands of human welfare. It evidently overstresses the life of the social as against the individual organism, imposing a regimen of equality which absorbs the many into the one. Now, desirous to hold the balance fair between the claims of individual personality and of society, we cannot acquiesce in an ideal of economical consumption which makes no direct provision for the former. So far, however, as the consumption of an individual is of a routine character, expressing only the needs of a human nature held in common with his fellows, it does not really express his individuality at all. The realisation of the unique values of his personality, and the conscious satisfaction that proceeds from this individual expression, can only be got by activities which lie beyond the scope of custom and convention. Though this issue has most important bearings that are outside the economic field, it is also vitally connected with the use of economic goods. For, unless a due proportion of the general income (the aggregate of goods and services) is placed at the free disposal of individuals in such forms as to nourish and stimulate the wholesome and joyous expansion of their powers, that social progress which first manifests itself in the free experimental and creative actions of individuals whose natures vary in some fine and serviceable way from the common life, will be thwarted. This brings us to a better understanding of the nature and origin of the human injury and waste contained in large sections of that conventional consumption which plays so large and so depressing a part in every class standard of comfort. Where the production of an economic society has grown so far as to yield a considerable and a growing surplus beyond that required for survival purposes, this surplus is liable to several abuses. Instead of being applied as food and stimulus to the physical and spiritual growth of individual and social life, it may be squandered, either upon excessive satisfaction of existing routine wants in any class or classes, or in the stimulation and satisfaction of more routine wants and the evolution of a complex conventional standard of consumption, containing in its new factors a diminishing amount of human utility or even an increasing amount of human costs. If the industrial structure is such that particular groups of business men can make

private gains by stimulating new wasteful modes of conventional consumption, this process, as we have seen, is greatly facilitated.

But, after all, the business motive is not in itself an adequate explanation. Business firms suggest new wants, but the susceptibility to such suggestions, the active imitation by which a new article passes into the conventional consumption of a group or class, requires closer consideration. Falsification of a standard can seldom be understood as a mere perversion of the free choice of individuals. A convention is not produced by a mere coincidence of separate choices. Imitation plays an important part in the contagion and infection of example. In endeavouring to assess the human utility of the consumption of wealth we see the play of several imitative forces. Current Prestige, Tradition, Authority, Fashion, Respectability supplement or often displace the play of individual taste, good or bad, in moulding a class and family standard of consumption. The psychology and sociology of these distinctively imitative forces which form or change standards are exceedingly obscure.

The merely gregarious instinct may lead to the spread in a class or group of any novelty which attracts attention and is not offensive. Where supported by any element of personal prestige, such novelty, irrespective of its real virtues or uses, may spread and become embedded in a standard of consumption. The beginnings of every fashion largely belong to this order of imitation. Some prestige is usually needed fairly to launch a new fashion; once launched it spreads mainly by 'gregariousness', the instinct to be, or look, or act, like other people. The limits of error, disutility or inconvenience, which can be set upon a novelty of fashion, appear to depend mainly upon the initial force of prestige. The King might introduce into London society a really inconvenient high hat, though the Queen perhaps could not carry a full revival of the crinoline.

Fashions change but they leave deposits of conventional expenditure behind. What is at first fashionable often remains as respectable and lives long in the conventional habits of a class. Every class standard is encrusted with little elements of dead fashion.

§ 9. But this formative influence of Prestige itself demands

fuller consideration. For it not merely implants elements of expenditure in the standard of consumption, but infects the standard itself.

A true standard would rest on a basis of organic utility, expenditure being apportioned so as to promote the soundest, fullest human life. But all conventional consumption is determined largely by valuations imposed by the class possessing most prestige. It is, of course, a commonplace that fashions in dress, and in certain external modes of consumption, descend by snobbish imitation from high life through the different social strata, each class copying the class above. It is a matter of far more vital importance that religion, ethics, art, literature and the whole range of intellectual activities, manners, amusements, take their shapes and values largely by the same process of infiltration from above.

This is not the case everywhere. In many nations the distinctions of caste, class, locality or occupation, are so strong as to preclude the passage of habits of material consumption, manners, tastes and ideas, from one social stratum to another. The exclusive possession of a code of life, of language, thought and feelings by a caste or class, is itself a matter of pride, and often of legal protection. This holds not only of most Asiatic civilisations but, though less rigorously, of those European countries which have not been fully subjected to the dissolving forces of industrialism.

But in such countries as England and the United States, where the industrial arts are rapidly evolving new products and stimulating new tastes, and where at the same time the social strata present a continuous gradation with much movement from one stratum to another, the process of imitation by prestige is very rapid and general.

The actual expenditure of the income of every class in these countries is very largely determined, not by organic needs, but by imitation of the conventional consumption of the class immediately above in income or in social esteem. That conventional consumption in its turn is formed by imitation of the class above. The aristocracy, plutocracy, or class with most power or prestige, thus makes the standards for the other classes.

Now, even if it were a real aristocracy, a company of the best, it by no means follows that a standard of living good for them would be equally good for other social grades. But there would be at least a strong presumption in its favour. To copy good examples, even if the copying is defective, is an elevating practice, and in as much as the essentials of humanity are found alike in all, thoughtless imitation of one's betters might raise one's own standard. If in a society the men of light and leading occupied this place because they had discovered a genius for the art of noble living, the swift unconscious imitation of their mode of life, the morals and manners of this aristocracy, would surely be the finest schooling for the whole people: the models of the good, the true, the beautiful, which they afforded, would inform each lower grade, according to its capacity.

But where the whole forces of prestige and imitation are set on a sham aristocracy, copying as closely as possible their modes of consumption, their ways of thought and feeling, their valuations and ideals, incalculable damage and waste may ensue. For the defects in the standard of the upper few will, by imitation, be magnified as well as multiplied in the lower standards of the many. Let me illustrate.

If gambling is bad for the upper classes, its imitation becomes progressively worse as it descends, poisoning the life and consuming a larger proportion of the diminishing margin of the income of each class. If the inconvenience of decorative dress is bad for rich women, who live a life of ease and leisure, its imitation by the active housewives of the middle, and the women-workers of the lower classes, inflicts a graver disutility. For the waste of income is more injurious and the physical impediments to liberty of movement are more onerous. It is the immeasurable importance of this prestige of the upper class, percolating through all lower social grades, and imposing, not merely elements of conventional consumption, but standards and ideas of life which affect the whole mode of living, that requires us to give closer consideration to the life of the leisure class.

§ 10. Here we can find valuable aid in a remarkable book entitled *The Theory of the Leisure Class*, by Mr. Veblen, an American sociologist. Regarded as a scientific study, which it rightly

claims to be, this book has two considerable defects, one of manner, one of matter. Its analysis is conducted with a half-humorous parade of pompous terminology apt to wear upon the temper of the reader. Its exaggerated stress upon a single strain of personality, as a dominant influence in the formation of habits and the direction of conduct, is a more serious blemish in a work of profound and penetrating power. But for our present purpose, that of discovering the elements of waste in national consumption, it is of first-rate importance.

Mr. Veblen's main line of argument may be summarised as follows. In primitive society war and the chase will be the chief means by which men may satisfy that craving for personal distinction and importance which is the most enduring and importunate of psychical desires. Personal prowess, mainly physical, displayed in fight or hunt, will secure leadership or ascendancy in tribal life. So those trophies which attest such prowess, the skulls or scalps of enemies, the skins of slain animals, or the live possession of tame animals, will be the most highly-prized forms of property. When the capture and enslavement of enemies has taken the place of promiscuous slaughter, the size and variety of his retinue of slaves for personal service, concubinage, or merely decorative show, attest the greatness of the warrior-chief. When the industrial arts are sufficiently developed, slaves will be set to produce such other forms of property, enlarged housing, quantities of showy garments, cultivated fields, herds of cattle, as afford conspicuous evidence of the personal prowess of the chief. Glory, far more than utility or comfort, continues to be the dominant motive.

As civilisation begins to make way, the notion of what constitutes personal prowess begins to be modified. Though physical force may still remain a chief ingredient, skill and cunning, wisdom in counsel, capacity for command and law-making, come to be recognised as also giving prestige. As not only the strong man by his strength, but the cunning man by his cunning, can get that wealth or property which is the insignia of prowess, property will however still be valued by its owner mainly for the prestige it affords him among his fellows. It will still for the most part take shape in external forms of adornment or magnifi-

cence. As it develops into the culminating form of the oriental court, the element of display will remain the paramount consideration, to which even the sense-enjoyments of the owner will be secondary.

The effect of this early linking of property to personal prowess will be that in the general mind of man the possession of property is honorific. It secures for its owner a presumption of personal greatness. Therefore, its possession must be kept in full and constant evidence, especially where inheritance destroys the direct presumption of the personal prowess of the actual owner. Hence the two essential features of the mode of living of the dominant class or caste, ostentatious waste and conspicuous leisure. For thus the prestige of property is best enforced. Gorgeous palaces with luxurious grounds, magnificent banquets and entertainments, extravagant refinements of sensual luxury, adornments of fabrics, jewels and articles of laborious skill, magnificent tombs and other monuments—the elaborate parade of waste, in order to fasten on the common imagination the sense of wonder and of admiration of the person who could afford so lavish a waste! The family of the rich man is chiefly valued as an instrument for making this display effective. His wife or wives must do no work, not even copy his parasitic activities; they must stand as open monuments of conspicuous leisure, their personal adornments, their retinues of servants, the entire elaborate ritual of their futile lives, must be devoted to showing how much their possessor can afford to waste. Such was the life of the aristocracy in olden and mediæval days!

It has passed in most essentials, by tradition and imitation, to the life of the upper class in modern civilised nations. The modes and conceptions of personal prowess and prestige have indeed shifted! The man of business has dethroned the warrior or the political chieftain. The typical great man of our time is the great *entrepreneur*, the financier who directs the flow of capital and rules prices on change, the railway or shipping magnate who plans a combine, the able and astute merchant, who controls a market, the manufacturer who conducts a great productive business, the organiser of a successful departmental store. The personal qualities and activities involved in these tasks are

very different from those possessed by barbarian chieftains or oriental despots. Add to such men the surviving landed aristocracy of rent-receivers, and a considerable number of families that live on dividends, taking no real part in the administration of industry, and we have a synopsis of the class which to-day wields prestige. Though the elaboration of modern arts of pleasure directs a great part of the expenditure of this, our upper class, the traditional habits of ostentatious waste and conspicuous leisure as modes of glory are still paramount motives. Most rich people value riches less for the pleasures they afford than for the social consideration, the personal distinction, they procure. The craving to realise superiority over others, as attested by their servility or imitation, the power of money to make others do your will, the sense of freedom to realise every passing caprice, these remain the chief value of riches, and mould the valuations of life for the bulk of the well-to-do.

Such are the inevitable effects of easily-gotten and excessive wealth upon the possessors. So far as they operate, they induce futile extravagance in expenditure. Instead of making for utility, they make for disutility of consumption. Such is the gist of this analysis of the leisured life.

§ 11. Expenditure which is to be effectively ostentatious, so as to impress its magnificence upon the largest number of other people, cannot be directed to the satisfaction of a real personal want, even a bad want. Futility is of its essence. The very type of this expenditure is a display of fireworks: there is no other way of consuming so large a quantity of wealth in so short a time with such sensational publicity and with no enduring effect whatever. This private extravagance may perhaps be paralleled in public expenditure by the squandering of millions upon war-ships which are not needed, will never be used, and will be obsolete within a few years of their construction.

The defects which every sane social critic finds in the modes of living of the rich, their frivolity, triviality and futility, are illustrations of Mr. Veblen's thesis. Perhaps the largest complex of forms of futile waste, waste of money and of time, is contained in the performance of what, with curious aptness of phrase, are termed 'social duties', the idle round of visits, enter-

tainments and functions which constitutes the 'society life'. I speak of the aptness of the term 'social duties'. This is no paradox, but merely the finest instance of that perversion of values and valuations which is inherent in the situation. For it is essential to the accuracy of this analysis that the rich members of society should regard their most futile activities as 'duties', and their small section of humanity as 'society'.

Of the expenditure which is laid out on the satisfaction of material wants, the waste or disutility will often be considerable. But Nature is strong enough to enforce some sense and moderation in the satisfaction of primary organic desires. While, therefore, there is much luxury and waste in the material standard of comfort of the rich, we do quite wrong to find in food and clothing and other material consumption our chief instances of luxury and waste. It is in the non-material expenditure that the proportion of waste or disutility is largest. The great moral law, *corruptio optimi pessima*, requires that this be so. If we seek the largest sources of injurious waste in the standard of the well-to-do classes, we shall find them in the expenditure upon recreation, education and charity.

CHAPTER XI

SPORT AND PRESTIGIOUS LEISURE

§ 1. It is no mere chance that makes sport the special field for the attainment and display of personal prestige among the well-to-do classes. Primitive man in his early struggle for life had to put all his powers of body and mind, all his strength and cunning, into the quick, sure, and distant discovery of beasts or other men who would destroy him. He must pursue and kill them, or successfully avoid them. He must seek out animal or vegetable foods, tracking them by signs and snares, rapid of foot, keen of eye and scent, quick, strong, and accurate of grasp. To run and spring, to climb and swim and strike and throw were necessary human accomplishments. They had a high survival value. Nature had to evolve and maintain a man who had the capacity to do these things well, and who was willing to undergo the necessary toil and pain of acquiring and exercising these arts and crafts. To ride, to shoot, to manage boats, were occupations of prime utility. Successful mating was also necessary for survival, and so the arts of courtship, dancing, music, decoration, and various displays of grace and vigour were evolved. The simple activities that were elaborated into these arts of hunting, fighting, mating, were instinctive, and strong feelings of pleasure were attached to them, as Nature's lure. When reason, or conscious cunning, came to coöperate with instinct, complicating and refining the useful arts, the specific pleasures of instinctive satisfaction were accompanied by a general sense of personal elation or pride. Now, in man, as in other animals, practice was needed for the successful performance of these useful activities. This practice takes the form of play, a more or less realistic simulation of the practices of fighting, hunting, courtship, in which, however, considerable scope exists for variations and surprises, the survival value of which is real, though indirect. Since these forms of play appeal to and exercise the same activities as are

involved in the serious affairs of life, the same sorts of satisfaction are attached to them. The natural meaning of play is that it is a preparation for work, i. e. for the arduous, painful, and often dangerous tasks involved in 'the struggle of life,' and the pleasure of play is the inducement to the acquisition of this useful skill.

§ 2. If this be so, it may be possible for some men to suck the pleasure from the play without performing the useful work for which it is a preparation. The play instincts can be made to yield a desirable life of interest and pleasure to any class of men who are enabled to get others to perform their share of useful work, and thus to provide them with the time, energy and material means for the elaboration of the play side of life. Such is the physical explanation of the sportsman. The play which Nature designed as means to life, he takes as an end, and lives 'a sporting life'. Some of his sports bear on the surface few signs of biological play about them. The manual and mental dexterity of such indoor games as bridge and billiards, appear quite unrelated to the arduous pursuits of mountaineering or big-game hunting. Between these two lie the great majority of active sports, such as shooting, racing, and the various games of ball. No one who analyses carefully the feelings of pleasure got from a boundary hit, a run with the ball, a neck-to-neck race, or any other athletic achievement, can doubt their nature.

Fighting, hunting, fishing, climbing, exploring, reduced to sports, contain just as much 'realism' as is needed to evoke the pleasurable excitement which sustained these skilful efforts when they belonged to the struggle for life. Some of the imitations may be so close to reality as to recall in almost its full intensity the primal thrill, as in tiger-stalking, in boxing, or rock climbing. In ball-games the fictitious circumstances call for more imagination, though the pleasure of the actual stroke is chiefly a race memory of a blow struck at an enemy, or of a blow warded off. No one can doubt the nature of the fierce pleasure of the football scrimmage with its mortal make-believe.

Although in many sports some element of physical risk is needed to sustain the realism, it is usually reduced to trifling dimensions. This is also true of the painful endurance inci-

dental to the primitive struggle. The modern sportsman or explorer commonly devises ways of economising both his personal risk and his personal effort. Beaters find the animal or bird for him to shoot; native porters and guides carry food for him, and ease his path. His object is to secure the maximum pleasure of achievement with the minimum risk and effort. Perhaps the most highly-elaborated example is the playful revival of the migratory and exploring instincts, from the picnic to the world-tour, with the complex apparatus of pleasure-travel which occupies so large a part in the life of the well-to-do classes. The luxurious life of travel in which the motor-car, the *train de luxe*, or the yacht carries men and women from the gorgeous hotel of one beauty spot to that of another, is made pleasurable or tolerable by waking up the dim shadow of some wandering ancestor, whose hunting or pastoral habits required some satisfaction to evoke the life-preserving effort. Camping-out and caravaning are somewhat more realistic reproductions, bringing in more of the gregarious or corporate instinct of the tribe.

How subtle are the artifices by which human cunning seeks to exploit the past is best illustrated, however, in the purely spectatorial or sympathetic surroundings of sport. To play football is one remove from battle, to watch the game is two removes, to watch the "tape" or follow the scores in the newspapers is three removes. Yet millions of little thrills of satisfaction are got from this simulation of a simulated fight. Blended in various degrees with other zests, of hazard, of petty cunning, and avarice, where betting enters into sport, the sporting interest ranks highest of all in the scale of values among the able-bodied males of all classes in English-speaking peoples.

Added to the pleasure from the output of strength or skill in sport is the general sentiment of exultation, the sense of glory. To what must that be attributed? Not to the magnitude of the strength or skill. A navvy may display greater strength or endurance in his work, a trapper or a common fisherman a finer skill in catching his prey. But the true glory of sportsmanship is denied them. Why? Because their work is useful, and they are doing it for a living. The glory of the successful sportsman is due to the fact that his deeds are futile. And this conspicuous

futility is at the root of the matter. The fact that he can give time, energy, and money to sport testifies to his possession of independent means. He can afford to be an idler, and the more obviously useless and expensive the sport, the higher the prestige attaching to it. His personal glory of strength, endurance, or skill is set in this aureole of parasitism. The crucial test of this interpretation is very simple. Let it turn out that a Marathon winner, who seemed to be a gentleman, was really a professional, what a drop in his personal prestige! The professional is a man who has to earn a living, his reputation as a sportsman is damaged by that fact. Can there be any more convincing proof that the high prestige of sport is due to the evidence of financial prowess which it affords?

The hunting and the fighting instincts evidently underlie the pleasure of nearly all the exclusively male sports. Doubtless other instinctive satisfactions enter in, such as the gregarious instinct with its conscious elaboration of *esprit de corps*. Whenever any game or sport brings the sexes into relation with one another, the mating instincts are evidently involved. The crossing of war with sex in the theory and practice of chivalry was a conscious and artistic blending of these pleasure motives.

But this treatment of sport as a frivolous pursuit of pleasure ignores one important aspect. Sport, it will be urged, after all has health for its permanent utility. It is exercise for the body and diversion for the mind. It wards off the natural consequences of the purely parasitic life, which a private income renders possible, by providing work-substitutes. The primal law, 'in the sweat of thy face shalt thou eat bread,' is gracefully evaded by games that include a gentle perspiration. Golf may take the place of spade-labour to win appetite and digestion; bridge will save the brain from absolute stagnation. So Nature's self-protective cunning elaborates these modes of sham-work.

§ 3. The social condemnation of a sporting-life is two-fold. In the first place, it diverts into lower forms of activity the zests and interests intended to promote a life of work and art. The sporting-life and standards choke the finer arts. The sportsman and the gamester are baser artists choosing the lower instead of the higher modes of self-realisation in manual and intellectual

skill. This maintenance of barbarian standards of values by the classes possessing social prestige is a great obstacle to the development of science, art, and literature. In the second place, sport spoils the spontaneity and liberty of play, which is a necessity of every healthy life. It spoils it for the sportsman by reason of its artificiality and its excess. For the sporting-life does not satisfy those who practise it. It carries the Nemesis of boredom. The sense of triviality and of futility gradually eats through, and the make-believe realism, when confronted with the serious values of life, shows its emptiness. A heavier social damage is the economic cost which the expensive futility imposes. For sport involves the largest diversion of unearned income into unproductive expenditure. Not only does it dedicate to extravagant waste a larger share of the land, the labour, and the enterprise of men than any other human error, unless it be war itself, but it steals the play-time of the many to make the over-leisure of the few. If the parasitic power which sustains the sporting-life were taken away, the world would not be duller or more serious. On the contrary, play would be more abundant, freer, more varied, and less artificial in its modes.

The identification of a sportsman with a gentleman has carried great weight in the unconscious settling of social values, and in England has been subtly serviceable as a sentimental safeguard against the attacks upon the economic supports not only of landlordism but of other wealth which has covered itself with the trappings of sport.

The relative prestige of other occupations is determined to a considerable extent by their association with the sporting-life or with the original activities which sport reproduces. Not only the idle landowner, but the yeoman, and in a less degree the tenant farmer, enjoy a social consideration beyond the measure of their pecuniary standing, by virtue of the opportunities for hunting and other sport which they enjoy. Part of the reputation of the military and the naval services is explained by the survival of the barbarian feeling that a life of hazard and rapine contains finer opportunities for physical prowess than a life of productive activity. Though a good deal of this prestige belongs to the glory of 'command' and extends even to a great employer of labour,

the glamour of the soldier's, hunter's, sportsman's life hangs in a less degree about all whose occupations, however servile, keep them in close contact with these barbarian activities. A publican, a professional cricketer, a stud-groom, a gamekeeper, enjoy among their companions a dignity derived from their association with the sporting-life.

§ 4. If physical recreations thus carry prestige, so in a less degree and in certain grades of society do intellectual recreations. Once a sportsman alone had a claim to be regarded as a gentleman. Only in comparatively modern times did the association of 'a scholar and a gentleman' seem plausible. Even now prowess of the mind can seldom compete in glory with prowess of the body. The valuation of achievements current in our public-schools persists, though with some abatement, among all sorts and conditions of men. But as mental skill becomes more and more the means of attaining that financial power which is the modern instrument of personal glory, it rises in social esteem. As manners, address, mental ability and knowledge more and more determine personal success, intellectual studies become increasingly reputable.

It might appear at the first sight that the highest reputation would attach to those abilities and studies which had the highest immediate utility for money-making. But here the barbarian standard retains a deflecting influence. To possess money which you have not made still continues to be far more honorific than to make money. For money-making, unless it be by loot or gambling, involves addiction to a business life instead of the life of a leisured gentleman. So it comes to pass that studies are valued more highly as decorative accomplishments than as utilities. A man who can have afforded to expend long years in acquiring skill or knowledge which has no practical use, thereby announces most dramatically his possession, or his father's possession, of an income enabling him to lead the life of an independent gentleman. The scale of culture-values is largely directed by this consideration. Thus not only the choice of subjects but the mode of treatment in the education of the children of the well-to-do is, generally speaking, in inverse ratio to their presumed utility. The place of honour accorded to

dead languages is, of course, the most patent example. Great as the merits of Greek and Latin may be for purposes of intellectual and emotional training, their predominance is not mainly determined by their merits, but by the traditional repute which has made them the chosen instruments for a parade of 'useless' culture. Though some attempt is made in recent times to extract from the teaching of the 'classics' the finer qualities of the 'humanities' which they contain, this has involved a revolt against the pure 'scholarship' which sought to exclude even such refined utilities and to confine the study of the classics to a graceful, skilful handling of linguistic forms and a purely superficial treatment of the thought and knowledge contained in the chosen literature. It is significant that even to-day 'culture' primarily continues to imply knowledge of languages and literature as accomplishments, and that, though mathematics and natural sciences enter more largely into the academic curriculum, they continue to rank lower as studies in the education of our wealthy classes.

Most convincing in its testimony to the formation of intellectual values is the treatment of history and modern English literature. Although for all purposes of culture and utility, it might have been supposed that the study of the thought, art, and events of our own nation and our own times, would be of prime importance, virtually no place is given to these subjects. History and literature, so far as they figure at all, are treated not in relation to the life of to-day, but as dead matter. Other subjects of strictly vital utility, such as physiology and hygiene, psychology and sociology, find no place whatever in the general education of our schools and universities, occupying a timid position as 'special' subjects in certain professional courses.

Pedagogues sometimes pretend that this exclusion of 'utility' tests for the subjects and the treatment in our system of education rests upon sound educational principles, in that, ignoring the short-range utilities which a commercial or other 'practical' training desiderates, they contribute to a deeper and a purer training of the intellectual faculties. But having regard to the part played by tradition and ecclesiastical authority in the establishment of present-day educational systems, it cannot be

admitted that they have made a serious case for the appraisal of studies according to their human values. Probably our higher education, properly tested, would be found to contain a far larger waste of intellectual 'efficiency' than our factory system of economic efficiency. And this waste is primarily due to the acceptance and survival of barbarian standards of culture, imperfectly adjusted to the modern conditions of life, and chiefly sustained by the desire to employ the mind for decorative and recreative, rather than for productive or creative purposes. Art, literature and science suffer immeasurable losses from this misgovernment of intellectual life. The net result is that the vast majority of the sons and daughters even of our well-to-do classes grow up with an exceedingly faulty equipment of useful knowledge, no trained ability to use their intellects or judgments freely and effectively, and with no strong desire to attempt to do so. They thus remain or become the dupes of shallow traditions, or equally shallow novelties, under the guise of scientific, philosophic, economic or political principles which they have neither the energy of mind nor the desire to test, but which they permit to direct their lives and conduct in matters of supreme importance to themselves and others.

As education is coming to take a larger place as an organised occupation, and more time, money and energy are claimed for it, the necessity of a revaluation of intellectual values on a sane basis of humanism becomes more exigent than ever. For there is a danger of a new bastard culture springing up, the product of a blending of the barbarian culture, descending by imitation of the upper classes, with a too narrowly utilitarian standard improvised to convert working-class children into cheap clerks and shopmen. Our high-schools and local universities are already victims to this *mésalliance* between 'culture' and 'business', and the treatment of not a few studies, history and economics in particular, is subject to novel risks.

§ 5. Dilettantism is the intellectual equivalent of sport. What is the moral equivalent? The sporting-life has an ethics of its own, the essence of which lies in eschewing obligations with legal or other compulsory external sanctions, in favour of a voluntary code embodying the mutual feelings of members of a

superior caste. In an aristocracy of true sportsmen honesty and sexual 'morality' are despised as bourgeois virtues, while justice is too compulsory and too equalitarian for acceptance. Honour takes the place of honesty, good form of morals, fair-play and charity of justice. It is the code of the barbarian superman or chieftain, qualified, softened and complicated to suit the conditions of the modern play-life. Courage and endurance, fidelity, generosity and mercy are his virtues: temperance, modesty, humility, gratitude, have no proper place in such a code, which is indeed based upon a free exercise of the physical functions for personal pleasure and glory.

The hazard belonging to a sporting life makes for superstition. Nobody is more crudely superstitious than the gambler, and everybody to whom life is primarily a game conceives of it as proceeding by rules which may be evaded or tampered with. This aspect of the sporting character gave the priestly caste its chief opportunity to get power. So pietism was grafted on the sportsman and the fighting-man, and religion kept a hold on the ruling and possessing classes, adapting its moral teaching to his case. The wide divergence of British Christianity from the teaching of the gospels finds its chief explanation in this necessity of adaptation. Its doctrines and its discipline had to be moulded so as to fit the character and conduct of powerful men, who not only would repudiate its inner spiritual teaching, but whose lust, pride, cruelty and treachery, the natural outcome of their animal life, were constantly leading them to violate the very code of honour they professed. As industry and property, peace and order, became more settled and wide-spread, there came up from below a powerful commercial class, whose economic and social requirements evolved a morality in which the so-called puritan virtues of industry, thrift, honesty, temperance, sexual purity, prevailed, and a Christianity designed primarily to evoke and to sustain them. Just as the intellectual culture of the aristocracy came to clash with the utilitarian education of the bourgeois and to produce the confusing compromise which at present prevails, so with the differing ethics of the same two classes. The incursion of the wealthy tradesman into 'high life' and of the landed gentry into the 'city' has visibly broken

down the older standards both of morals and of manners. The prestige of the sporting virtues has played havoc with the simplicity and austerity of the puritan morals and creeds, though it may fairly be maintained that the saner utilities of the latter have tempered to a perceptible degree the morals and manners of the sportsman. Luxuries and frivolities of a more varied order have largely displaced the older sporting-life, introducing into it some elements of more intellectual skill and interest, though it remains primarily devoted to the pursuit of pleasurable sensuous futilities.

But, though the modes of the leisure life are shifting, the definitely parasitic attitude and career which it embodies remain unchanged. The sense of justice and of humanity among its members is as defective as ever. This truth is sometimes concealed by the change in social areas that is taking place. Class honour and comradeship have a somewhat wider scope as the range of effective intercourse expands, and classes which formerly were wide apart come partially to fuse with one another, or are brought within the range of sympathy, as regards their more sympathetic members. So intercourse upon a fairly equal basis can take place in such a country as England between most persons who have reached a certain level of refinement of living. This certainly implies some transfusion of moral standards, the union of common sentiments regarding industry and property with the downward spread of a modified conception of a sporting life. Indeed, imitation has gone a certain way towards infecting all the stabler grades of the working-classes with this blend of barbarian and puritan valuations. While the larger pecuniary means and leisure which they possess has introduced into their standard of life sporting habits largely imitative of the fully leisured aristocracy, it has implanted habits of 'respectability' as the contribution of the bourgeois type immediately above them in the social scale.

§ 6. But when we dip down below the bourgeois and the regular working-classes which he has drilled in industry, we find a lower leisure class whose valuations and ways of living form a most instructive parody of the upper leisure class. Both in country and town life these types appear. They include 'gyp-

sies', tramps, poachers and other vagabonds, who have never been enlisted in the army of industry, or have deserted in favour of a 'free' life of hazard, beggary and plunder. In towns natural proclivities or misfortune account for considerable groups of casual workers; professional or amateur thieves and prostitutes, street-sellers, corner-men, kept husbands, and other parasites who are a burden on the working-classes. Alike in country and in town, these men practise, so far as circumstances allow, the same habits and exhibit the same character as the leisure class at the top. The fighting, sporting, roving, generous, reckless, wasteful traits are all discernible, the same unaffected contempt for the worker, the same class camaraderie, often with a special code of honour, the same sex license and joviality of manners. Even their intelligence and humour, their very modes of speech, are the half-imitative, half-original replica of high life as it shows in the race-course, in the club smoke-room, or the flash music-hall. Often the parasites and hangers-on to upper-class sports and recreations, these form a large and growing class of our population, and their withdrawal from all industry that can be termed productive, coupled with the debased mode of consumption which they practise, count heavily in the aggregate of social waste.

§ 7. As the opportunities of leisure and of some surplus income beyond the current accepted standard of class comfort become more general, this sympathetic imitation of recreations, education and morals, undoubtedly makes for a national standardisation of life, though the enormous discrepancies in economic resources greatly limit the efficacy of such a tendency to unity. But the apparent gain in humanity thus suggested is largely counterworked by the stronger sense of national and especially of racial cleavage which has come with modern world intercourse. If class barriers of conduct, education and feeling are somewhat weakening in the foremost European nations, a clearer and intenser realisation of national and racial barriers takes their place. Every modification of class exclusiveness, and of economic plunder, upon the smaller scale, is compensated by this wider racial exclusiveness, with its accompanying parasitism. The civilised Western world is coming more consciously to mould

its practical policy, political and economic, and its sentiments and theories, upon a white exploitation of the lower and the backward peoples. Imperialism is displacing, or at present is crossing, class supremacy, and is evolving an intellectualism and a morals accommodated to the needs of this new social cleavage. It is moving towards a not distant epoch in which Western white nations may, as regards their means of livelihood, be mainly dependent upon the labour of regimented lower peoples in various distant portions of the globe, all or most members of the dominant peoples enjoying a life of comparative pleasure and leisure and a collective sense of personal superiority as the rulers of the earth.

That standards of recreation, education and morals, thus formed and transformed, are likely to contain enormous 'wastes' in their direct and indirect bearing upon economic life, is obvious. How far this waste is to be imputed to imitation of the prestige-possessing habits of 'the leisured class', how far to 'original sin' or the errors or excesses natural to all sorts and conditions of men, it is not possible to ascertain. But it will be evident that in these higher satisfactions, to which an increasing 'surplus' of wealth, leisure and energy can be devoted, will be found the largest wastes. For the conventional expenditure embedded in these strata of the various class standards will be largely directed by motives which are very loosely related to any real standard of organic welfare. One need not exaggerate this expenditure of time or money, or deem it wholly unproductive. It may even be conceded that few of the pursuits of pleasure are wholly destitute of benefit, nor are prestige and the imitation it engenders wholly valueless. But such practices contain much that is obsolete, incongruous or indigestible, much that is actively injurious, both to the individual and to society. Regarded from the standpoint of pecuniary expenditure, the misdirection of the surplus income into empty or depraved modes of recreation, culture, religion and charity is the largest of all economic wastes. Could it be set forth in veracious accounts, its enormity would impress all reflective minds. How small the total yield of human welfare or even of current pleasurable satisfaction from the idle travel, racing, hunting, motoring, golfing,

yachting, betting and gambling, in comparison with the human gain from the work and arts of which they are the futile substitutes! Consider the damage to agriculture, the sheer loss of human energy, the selfishness, sensuality and brutality incidental to many sports, the empty-mindedness, obtuseness of intelligence and insensate pride, the shutting of the senses and the emotions to most of the finer and nobler scenes in the spectacle of nature and the drama of humanity, that are the natural and necessary consequences of 'a sporting life.' Or could one accurately analyse the costs of dilettantism, sham culture, with its monstrous perversions of productive energy in the fields of pedagogy, art, science, and literature, in a descending scale of frivolousness or depravity, as they seize by imitation the awakening mind of ever larger strata of our populations! But even worse than sham intellectualism is the sham morality which tricks itself out in pietistic formulas and charitable practices, so as to evade obedience to the plain laws of human brotherhood and social justice in this world.

The widest and deepest implications of this parasitic life of luxury and leisure, the substitution of recreation for art and exercise, of dilettantism for the life of thought, of pietism, and charity for human fellowship, lie beyond the scope of our formal enquiry. We are concerned with them primarily as affecting economic production and consumption. Sport, dilettantism and charity are for us characteristic products of mal-distribution seizing that surplus-income which is the economic nutriment of social progress, and applying it to evolve a complicated life of futile frivolities for a small leisured class who damage by their contagious example and incitement the standards of the working members of the society in which they exercise dominion.

CHAPTER XII

THE HUMAN LAW OF DISTRIBUTION

§ 1. In seeking at once to establish and apply to industry a standard of human value, we have taken for our concrete subject-matter the aggregate of marketable goods and services that constitute the real income of the nation. This real wealth, distributed in income among the various members of the community, we subjected to a double analysis, tracing it backwards through the processes of its production, forward into its consumption. Some of the activities of its production we recognised as being in themselves interesting, pleasant, educative or otherwise organically useful: others we found to be uninteresting, painful, depressing or otherwise organically costly. A similar divergence of human value appeared in the consumption of those forms of wealth. Some sorts and quantities of consumption were found conducive to the maintenance and furtherance of healthy life, both pleasant and profitable. Other sorts and qualities of consumption were found wasteful or injurious to the life of the consumers and of the community.

The general result of this double analysis may be summarised in the following tabular form.

WEALTH		
PRODUCTION		CONSUMPTION
Art & Exercise. } Labour. }	Human Utility	{ Needs. { Abundance.
Toil. } Mal-production. }	Human Cost	{ Satiety. { Mal-consumption.

In the ordinary economic account 'costs' appear entirely on the Production side of the account, 'utility' entirely on the Con-

sumption side. Production is regarded not as good or desirable in itself, but only as a means towards an end, Consumption. On the other hand, all parts of Consumption are regarded as in themselves desirable and good, and are assessed as Utilities according to the worth which current desires, expressed in purchasing power, set upon them.

Our human valuation refuses to regard work as a mere means to consumption. It finds life and welfare in the healthy functioning of productive activities, as well as in the processes of repair and growth which form sound consumption.

If all production could be reduced to Art and Exercise, the creative and the re-creative functions, all consumption to the satisfaction of physical and spiritual needs, we should appear to have reached an ideal economy, in which there would be no human costs and a maximum amount of human utility. The conditions of a complete individual life would seem to be attained. But we are not concerned with a society in which completeness of the individual life is the sole end, but with a society in which the desires, purposes and welfare of the individuals are comprised in the achievement of a common life. For this reason I have included under the head of Utility on the Productive side of our account, not only the Art and Exercise which are directly conducive to individual well-being, but a quantum of Labour which represents the economic measure of the inter-dependency, or solidarity, of the so-called individuals. Such labour is the so-called 'sacrifice' required of 'individuals' in the interest of the society to which they belong. To the individualist it appears a distortion of the free full development of his nature, an interference with his perfect life. But it is, of course, neither sacrifice nor distortion. For the so-called individual is nowise, except in physical structure,¹ completely divided from his fellows. He is a social being and this social nature demands recognition and expression in economic processes. It requires him to engage in some special work which has for its direct end the wel-

¹ Even there he is not separated in physical functions. The sexual, philoprogenitive, and the gregarious instincts, which are rooted in physical structure, negate physical individualism. So does the structure of his brain, which in solitude decays or becomes diseased.

fare of society, in addition to the work of using his own powers for his own personal ends. How far this routine labour for society can be taken into his conception of his human nature, and so become a source of personal satisfaction, is a question we shall discuss later on. At present it will suffice to recognise that each man's fair contribution to the routine labour of the world, though irksome to him, is not injurious but serviceable to his 'human' nature. Thus interpreted, it stands on the utility, not on the cost, side of the account. It must be distinguished from its excess, which we here term 'toil', and from work, which whether from an abuse of the creative faculty or of social control, is bad and degrading in its nature and is here termed mal-production.

A similar distinction between the narrowly personal and the broader social interpretation of welfare is applicable on the consumption side. It is clearly not enough that the income which is to furnish consumption should suffice only to make provision for the satisfaction of the material and spiritual needs of the individual—or even of his family. The expenditure of every man should contain a margin—which I here call 'abundance'—from which he may contribute voluntarily to the good of others. There will be public needs or emergencies, which are not properly covered by State services but remain a call upon the public spirit of persons of discernment and humanity. There are also the calls of hospitality and comradeship, and the wider claim of charity, the willing help to those in need, a charity that is spontaneous, not organised, that degrades neither him who gives nor him who receives, because it is the natural expression of a spirit of human brotherhood. For the sting alike of condescension and of degradation would be removed from charity, when both parties feel that such acts of giving are an agreeable expression of a spirit of fellowship. From the consumption which is thus applied to the satisfaction of sound personal needs, or which overflows in 'abundance' to meet the needs of others, we distinguish sharply that excessive quantity of consumption, which in our Table ranks as 'Satiety', and those base modes of consumption which in their poisonous reactions on personal and social welfare strictly correspond to the base forms of production.

§ 2. Such are the general lines of demarcation between the

strictly business and the human valuation of the productive and consumptive processes. We now perceive how close is the resemblance of the laws of human valuation as applied to the two sides of the equation of Wealth. This similarity is, of course, no chance coincidence: it inheres in the organic nature of society and of individual life. But, in order to proceed with our main purpose, the expression of the economic income in terms of human income, we must bring the two sides of the enquiry into closer union. We can thus get a fair survey of the current life of industry from the standpoint of wealth and waste, health and disease. So far as our national income, the £2,000,000,000 of goods and services, are produced by activities, which in their nature and distribution can be classed as Art, Exercise and Social Labour, and are consumed in ways conducive to the satisfaction of individual and social Needs, our industrial society is sound.

Probably the greater part of our income is thus made and spent. The necessity of attending more closely to the defects than to the successes of the present system must not lead us to disparage the latter.

If industry were in fact the irrational, unjust and utterly inhuman anarchy it is sometimes represented to be, it would not hold together for twenty-four hours. Not merely is the individual business in its normal state a finely adjusted, accurately-working complex of human skill, industry and coöperative goodwill, but the larger and less centralised structures, which we call trades and markets, show a wonderful intricacy of order in their form and working. To feed the thousands of mills and workshops of England with a fairly regular supply of countless materials drawn from the wide world, to feed the millions of mouths of our people with their regular supply of daily food, are notable achievements of industrial order. In concentrating, as we must, our chief thought upon the disorder of the system, the places where it fails, and the damage of such failure, we gain nothing by exaggerating the industrial maladies and their social injuries.

The proportions of order and disorder, health and disease, human cost and human utility, in the working of our industrial system are best ascertained by turning once more to our con-

crete mass of wealth, our income, and enquiring into the quantitative method of its distribution.

In examining the human costs involved in a given output of labour-power (and of other productive energy) we recognised that very much depended upon the conditions of that output, and particularly upon the length and intensity of the working-day and working-week.

Similarly, in examining the human utility got from the consumption of a given quantity of goods, we recognised that it will depend upon the sort and the number of persons who receive it for consumption.

So from both sides of the question we approach the central issue of the distribution of Wealth.

If the £2,000,000,000 of goods were found to be so distributed in the modes of their production as to involve no burden of toil and no injury upon the producers, while they were so distributed in income as to involve no waste or damage in consumption, the human utility it represented would reach a maximum and cost would be zero.

If, on the other hand, the same goods were largely produced by ill-nourished labourers, working long hours under bad hygienic conditions, and using capital largely furnished by the painful and injurious saving of the poor, while the distribution of the goods was such as to assign the bulk of them to a small affluent class, the masses living on a bare subsistence level, the human utility of such a system would be very small, its human cost very great. Judged indeed from any right standard of civilisation, an industrial society of the latter sort might represent a minus quantity of human welfare.

There might even be two nations of equal population and economic income, equally prosperous from the standpoint of statistics of commerce, which nevertheless, by reason of the different apportionment of work and income, stood poles asunder in every true count of human prosperity.

§ 3. Now the Human Law of Distribution, in its application to industry, aims, as we have seen, to distribute Wealth, in relation to its production on the one hand and its consumption on the other, so as to secure the minimum of Human Costs and the max-

inum of Human Utility. No bare rule of absolute equality, based upon the doctrine of equal rights, equal powers or equal needs, will conduce to this result. The notion that the claims of justice or humanity would be met by requiring from all persons an equal contribution to the general output of productive energy is manifestly foolish and impracticable. To require the same output of energy from a strong as from a weak man, from an old as from a young, from a woman as from a man, to ignore those actual differences of age, sex, health, strength and skill, would be rejected at once as a preposterous application of human equality. If such an equal output were required, it could only be obtained by an average task which would unduly tax the powers of the weak, and would waste much of the powers of the strong. A similar human economy holds of the provision of capital through saving. To impose saving upon working folk whose income barely maintains the family efficiency, when other folk possess surplus-incomes out of which the socially necessary capital can be provided, is a manifestly wasteful policy. Those who have no true power to save should not be called upon to undergo this 'cost': all saving should come proportionately out of higher incomes where it involves no human sacrifice. Alike, as regards labour and capital, the true social economy is expressed in the principle that each should contribute in accordance with his ability.

It should be similarly evident that exact equality of incomes in money or in goods for all persons is not less wasteful, or less socially injurious. I cannot profess to understand by what reasoning some so-called Socialists defend an ideal order in which every member of society, man, woman and child, should have an absolutely equal share of the general income. The needs of people, their capacity to get utility out of incomes by consuming it, are no more equal than their powers of production. Neither in respect of food, or clothing, or the general material standard of comfort, can any such equality of needs be alleged. To say that a big strong man, giving out a correspondingly large output of energy, needs exactly the same supply of food as a small weakly man, whose output is a third as great, would be as ridiculous as to pretend that a fifty-horse power engine needed no

more fuel than a ten-horse power one. Nor will the differences in one set of needs be closely compensated in another. Mankind is not equal in the sense that all persons have the same number of faculties developed, or capable of development, to the same extent, and demanding the same aggregate amount of nutriment. To maintain certain orders of productive efficiency will demand a much larger consumption than to maintain others. Because differences of income and expenditure exist at present which are manifestly unjust and injurious, that is no reason for insisting that all differences are unwarrantable. Equality of opportunity does not imply equality but some inequality of incomes. For opportunity does not consist in the mere presence of something which a man can use, irrespective of his own desires and capacities. A banquet does not present the same amount of opportunity to a full man as to a hungry man, to an invalid as to a robust digestion. £1,000, spent in library equipment for university students, represents far more effective opportunity than the same sum spent on library equipment in a community where few can read or care to read any book worth reading. Equality of opportunity involves the distribution of income according to capacity to use it, and to assume an absolute equality of such capacity is absurd.

It may no doubt be urged that it is difficult to measure individual needs and capacities so as to apply the true organic mode of distribution. This is true and any practical rules for adjusting income, or for distribution of the product, according to needs, will be likely to involve some waste. But that is no reason for adopting a principle of distribution which must involve great waste. However difficult it may be to discover and estimate differences of needs in individuals or classes of men, to ignore all differences insures a maximum of waste. For, assuming, as it does, a single average or standard man, to which type no actual man conforms, it involves a necessary waste in each particular case. Everyone, in a word, would under this mechanical interpretation of equality possess either a larger or a smaller income than he could use. Such a doctrine, though sometimes preached by persons who call themselves socialists, is really a survival of the eighteenth-century doctrine of individual rights,

grafted on to a theory of the uniformity of human nature that is contradicted by the entire trend of science.

This levelling doctrine only serves to buttress the existing forms of inequality, by presenting in the guise of reform a spurious equality, the folly and the waste of which are obvious even to the least reflecting of mankind.

§ 4. Distribution of income according to needs, or ability to use it, does not, indeed, depend for its practical validity upon the application of exact and direct measurements of needs. The limits of any sort of direct measurement even of material needs appear in any discussion of the science of dietetics. But inexact though such science is, it can furnish certain valid reasons for different standards of food in different occupations, and for other discriminations relating to race, age, sex and vigour. What holds of food will also hold of housing, leisure, modes of recreation and intellectual consumption. Nor must it be forgotten that, for expenditure, the family is the true unit. The size and age of the family is certainly a relevant factor in estimating needs, and in any distribution on a needs basis must be taken into account.

Public bodies, and less commonly private forms, in fixing salaries and wages, are consciously guided by such considerations. The idea is to ascertain the sum which will maintain a worker, with or without a family, in accordance with economic efficiency, and having regard to the accepted conventions of the class from which he will be drawn. Having determined this 'proper' salary or wage, they seek to get the best man for the work. It is true that the conventional factor looms so big in this process as often to obscure the natural economy. When it is determined by a municipality that its Town Clerk ought to have £1500 a year and its dustman 35s. a week, it appears a palpable straining of language to suggest that differences of 'needs' correspond to this discrepancy of pay. For, though it is true that in the existing state of the market for legal ability and experience the town may not be able to get a really good town clerk for less, that state of the legal market is itself the result of artificial restrictions in opportunity of education and of competition, which have no natural basis and which a society versed in sound social

economy will alter. But the fact that the existing interpretation of needs is frequently artificial and exaggerated must not lead us to ignore the element of truth embodied in it. The wages of policemen, the real wages of soldiers and sailors, are determined with conscious relation to the needs of able-bodied men engaged in hard physical work, and with some regard to the existence of a wife and family. But I need not labour the point of the difference between the salary and the 'commodity' view of labour. The acceptance among all thoughtful employers of 'the economy of high wages' applied within reasonable limits is itself the plainest testimony to the actuality of the 'needs' basis of income. That unless you pay a man enough to satisfy his needs, you cannot get from him his full power of work, is a proposition which would meet with universal acceptance.

But it will commonly be added that the safest way of measuring needs is by means of output. This output, measured by work-time, or by piece, or by a combination of the two, still remains the general basis of payment. How far is this conformable to our theory of human distribution, according to needs? That there is some conformity will, I think, be easily perceived. If one docker unloads twice as much grain or timber as another docker in the same time, or if one hewer working under the same conditions 'gets' twice as much coal as another, there is a reasonable presumption that the larger actual quantity of labour has taken a good deal more 'out of him'.

Putting the comparison on its barest physical basis, there has been a larger expenditure of tissue and of energy, which must be replaced by a larger consumption of food. A strong man doing much work may not be exerting himself more than a weak man doing little work. But all the same there is some proportion between the respective values of their output of physical energy and their intake of food. This, of course, is a purely physiological application of our law of human distribution. It applies both to sorts of work and to individual cases in the same sort of work, and constitutes an 'organic' basis for difference of 'class' wages and individual wages. We urge that it is applicable to other factors of consumption than food, and throughout the whole area of production and consumption. But applied as

a practical principle for determining distinctions of class or grade payment, and still more for individual payment within a class, it has a very limited validity. Rigorously applied it is the pure 'commodity' view of labour, the antithesis of the 'salary' view which best expresses the 'needs' economy. But, though output cannot be taken as an accurate measure of 'needs' for the purpose of remuneration, it clearly ought to be taken into account. The practical reformer will indeed rightly insist that it must be taken into account. For he will point out that output is a question not merely of physiological but still more of moral stimulus. A strong man *will* not put out more productive energy than his weaker fellow unless he knows he is to get more pay; a skilful man cannot be relied upon to use his full skill unless he personally gains by doing so. If the sense of social service were stronger than it is, a bonus for extra strength or skill might be unnecessary. But as human nature actually stands, this stimulus to do a 'best' that is better than the average, must be regarded as a moral 'need' to be counted for purposes of remuneration along with the physiological needs. Too much need not be made of this distinctively selfish factor. In many sorts of work, indeed, it may not be large enough to claim recognition in remuneration. But where it is important, the application of our needs economy of distribution must provide for it. This admission does not in the least invalidate our organic law. For the moral nature of a man is as 'natural' as his physical nature. Both are amenable to education, and with education will come changes which will have their just reactions upon the policy of remuneration.

§ 5. The organic law of distribution in regarding needs will, therefore, take as full an account as it can both of the unity and the diversity of human nature. The recognition of 'common' humanity will carry an adequate provision of food, shelter, health, education and other prime necessities of life, so as to yield equal satisfaction of such requirements to all members of the community. This minimum standard of life will be substantially the same for all adult persons, and for all families of equal size and age. Upon this standard of human uniformity will be erected certain differences of distribution, adjusted to the spe-

cific needs of any class or group whose work or physical conditions marks it out as different from others. The present inequalities of income, so largely based upon conventional or traditional claims, would find little or no support under this application of the organic law. Indeed, it seems unlikely that any specific requirements of industrial or professional life would bulk so largely in interpreting human needs as to warrant any wide discrimination of incomes. There seems no reason to maintain that a lawyer's or a doctor's family would require, or could advantageously spend, a larger income than a bricklayer's, in a society where equality of educational and other opportunities obtained. But, if there were any sorts of work which, by reason of the special calls they made upon human faculties, or of the special conditions they imposed, required an expenditure out of the common, the organic law of distribution according to needs would make provision for the same as an addition to the standard minimum. So likewise the hours of labour would be varied from a standard working-day to meet the case of work unusually intense or wearing in its incidence. To what extent society would find it necessary to recognise individual differences of efficiency within each grade as a ground for particular remuneration—and how far such claims would represent, not payment according to true needs but power to extort a personal rent—is a question which can only be answered by experience. It may, however, be regarded as certain that the high individual rents which prevail at present in skilled manual and mental work, could not be maintained. For these high rates depend upon conditions of supply and of demand which would not then exist. The enormous fees which specialists of repute in the law or medicine can obtain depend, partly, upon the inequality of educational and social opportunities that limits the supply of able men in these professions; partly, upon other inequalities of income that enable certain persons to afford to pay such fees. Equality of opportunity and even an approximate equalisation of income would destroy both these sources of high rents of ability. What applies in the professions would apply in every trade. Individual 'rents' of ability might survive, but they must be brought within a narrow compass.

While, then, the selfishness of individual man might give a slight twist to the application of the social policy of distribution according to needs, it would not impair its substantial validity and practicability.

Thus we see this law of distribution, operative as a purely physical economy in the apportionment of energy for mechanical work, operative as a biological economy through the whole range of organic life, is strictly applicable as a principle of social economy. Its proper application to social industry would enable that system to function economically, so as to produce the maximum of human utility with the minimum of human cost.

§ 6. If we can get an industrial order, in which every person is induced to discover and apply to the service of society his best abilities of body and mind, while he receives from society what is required to sustain and to develop those abilities, and so to live the best and fullest life of which he is capable, we have evidently reached a formally sound solution of the social problem on its economic side. We are now in a position to approach the actual processes of economic distribution that prevail to-day, so as to consider how far they conform to this sound principle of human industry.

We are not justified at the outset in assuming that any wide discrepancy will be admitted. On the contrary, in many quarters there survives a firm conviction that our actual system of industry does work in substantial conformity with the human law of distribution.

The so-called *laissez-faire* theory of industrialism based its claims to utility and equity upon an assertion of the virtual identity of the economic and the human distribution. If every owner of capital or labour or any other factor of production were free to apply his factor in any industry and any place he chose, he would choose that industry and that place where the highest remuneration for its employment was attainable. But since all remuneration for the factors of production is derived from the product itself, which is distributed among the owners of the several factors, it follows that the highest remuneration must always imply the most productive use. Thus, by securing complete mobility of capital and labour, we ensure both a maximum

production and an equitable distribution. 'Led as by an invisible hand,' every owner of capital, labour or other productive power, disposed of his factor in a manner at once most serviceable to the production of the general body of wealth and most profitable to himself. The application of this theory, of course, assumed that everybody knew or could get to know what employment he would be likely to find most profitable for his capital or labour, and would use that knowledge. It was, moreover, held that the actual conditions of industry and commerce did and must substantially conform to this hypothesis of mobility. Any circumstances, indeed, which contravened it by obstructing the mobility and liberty of employment were treated as exceptional. Such exceptions were monopolies, the exclusive owners of which forbade freedom of entry or of competition to outside capital and labour, and secured higher rates of profit than prevailed in other businesses. The harmony of perfect individualism demanded that all such monopolies, together with protective duties and other barriers to complete liberty of commerce and of industry, should be removed. All productive power would then flow like water through the various industrial channels, maintaining a uniform level of efficient employment, the product being distributed in accordance with the several costs of its production and being absorbed in the processes of productive consumption that were required to maintain the current volume of productive power or to enhance it.

There was a little difficulty in the case of rents of land. Though differential rents, measuring the superior productivity of various grades of land as compared with the least productive land in use, were necessary payments to landowners, they could not rank as costs and could not be productively consumed. So likewise with the scarcity rents, paid even for the least productive lands where the supply for certain uses was restricted. Both scarcity and differential rents were classed as surplus. But though the magnitude of this exceptional element might seem to have been a fatal flaw in the individualist harmony, a characteristic mode of escape was found in the doctrine of parsimony which prevailed. Though economic rents could not be productively consumed by their recipients, they furnished a natural fund of savings, so pro-

viding the growing volume of new capital which was necessary to set labour to productive work. So, by a somewhat liberal interpretation, it was contended that 'the simple system of natural liberty', even operating on a basis of private ownership of land, drew from each man the best and fullest use of his productive powers, and paid him what was economically necessary to maintain and to evoke those powers. Early critics of this theory, of course, pointed out that the interpretation of distribution 'according to needs' was defective from the standpoint of humanity, since the only needs taken into account were efficiency for productive work, the nourishment and stimulus to produce a larger quantity of marketable goods, not the attainment of the highest standard of human well-being. But to most economists of that day such a criticism seemed unmeaning, so dominant in their minds was the conception of economic wealth as the index and the instrument of human welfare.

§ 7. It is commonly asserted and assumed that this *laissez-faire* theory is dead, and that the attainment of a harmony of social welfare, by the free intelligent play of individual self-interest in the direction of economic forces, has been displaced by some theory of conscious coöperative or corporate direction in which the State takes a leading part. But at this very time, when the policy of every civilised nation is engaged more and more in checking monopolies and industrial privileges upon the one hand, and in placing restraints upon the havoc of unfettered competition on the other, a distinct and powerful revival of an economic theory of production and distribution undistinguishable in its essentials from the crude 18th century *laissez-faire* has set in. Largely influenced by the desire to apply mathematics, so as to secure a place for economics as an 'exact' science, many English and American economists have committed themselves to a 'marginalist' doctrine, which for its efficiency rests upon assumptions of infinite divisibility of the factors of production, and frictionless mobility of their flow into all the channels of industry and commerce. These assumptions granted, capital and labour flow into all employments until the last drop in each is equally productive, the products of the 'marginal' or final drops exchanging on a basis of absolute equality and earning

for their owners an equal payment. Among English economists Mr. Wicksteed has set out this doctrine in all its economic applications most fully. He shows how by a delicate balance of preferences 'at the margins' i. e. in reference to the last portion of each supply of or demand for anything that is bought or sold, there must be brought about an exact equivalence of utility, of worth, and of remuneration, for the marginal increments in all employment. 'So far as the economic forces work without friction, they secure to everyone the equivalent of his industrial significance at the part of the industrial organism at which he is placed.'¹ Elsewhere² he asseverates that, as regards the workers in any employment, this means that 'they are already getting as much as their work is worth,' and that if they are to get more, this 'more' can only be got either out of 'communal funds,' or by making their work worth more. The same application of the marginalist doctrine is made by Professor Chapman. 'The theory, then, merely declares that each person will tend to receive as his wage *his value*—that is, the value of this marginal product—no more and no less. In order to get more than he actually does get, he must become more valuable,—work harder, for instance—that is, he must add more to the product in which he participated.'³ This is precisely the old '*laissez-faire, laissez-aller*' teaching, fortified by the conception that some special virtue attaches to the equalising process which goes on 'at the margin' of each employment of the factors of production.

The 'law of distribution' which emerges is that every owner of any factor of production 'tends to receive as remuneration' exactly what it is 'worth'. Now this 'law' is doubly defective. Its first defect arises from the fact that economic science assigns no other meaning to the 'worth' or 'value' of anything than what it actually gets in the market. To say, therefore, that anybody 'gets what he is worth', is merely an identical proposition, and conveys no knowledge. The second defect is the reliance upon a 'tendency' which falsely represents the normal facts and forces. It is false in three respects. It assumes in the first place an infinite divisibility of the several factors, necessary to secure the

¹ *The Common-sense of Political Economy*, p. 698.

² P. 345.

³ *Work and Wages*, Vol. I, p. 14.

accurate balance of 'preferences' at the margins. It next assumes perfect mobility or freedom of access for all capital and labour into all avenues of employment. Finally, it assumes a statical condition of industry, so that the adjustment of the factors on a basis of equal productivity and equal remuneration at the margins may remain undisturbed. All three assumptions are unwarranted. Very few sorts of real capital or labour approach the ideal of infinite divisibility which marginalism requires. An individual worker, sometimes a group, is usually the minimal 'drop' of labour, and capital is only infinitely divisible when it is expressed in terms of money, instead of plants, machines or other concrete units. Still less is it the case that capital or labour flows or 'tends' to flow with perfect accuracy and liberty of movement into every channel of employment where it is required, so as to afford equality of remuneration at the several margins. Lastly, in most industrial societies the constant changes taking place, in volume and in methods of industry, entail a corresponding diversity in the productivity and the remuneration of the capital and labour employed in the various industries 'at the margin.'¹

§ 8. This slightly technical disquisition is rendered necessary by the wide acceptance which 'marginalism' has won in academic circles. Its expositors are able to deduce from it practical precepts very acceptable to those politicians and business men who wish to show the injustice, the damage and the final futility of all attempts of the labouring classes, by the organised pressure of trade unionism or by politics, to get higher wages or other expensive improvements of the conditions of their employment.

¹ Professor Pigou (*Wealth and Welfare*, p. 176), though adopting the general position of marginalism, makes a concession, as to its applicability, which is a virtual admission of its futility. For by showing that only in 'industries of constant returns' are 'supply price' and 'marginal supply price' equal, and that in industries of 'decreasing' or of 'increasing' returns there exists a tendency to exceed or to fall short of 'the marginal net product yielded in industries in general,' he virtually endorses the criticism that 'marginalism' assumes a statical condition of industry. For only in a statical condition would all industries be found conforming to constant returns: the operation of increasing or diminishing returns means nothing else than that changes in volume or methods of production are raising or lowering productivity and remuneration above or below the equal level which 'marginalism' desiderates.

For if 'marginalism' can prove that, as Professor Chapman holds, 'in order to get more than he actually does get, he must become more valuable—work harder, for example,' it has evidently re-created the defences against the attacks of the workers upon the fortresses of capital which were formerly supplied by the wage-fund theory in its most rigorous form. If wages can only rise on condition of the workers working harder or better, no divergence of interests exists between capital and labour, no injustice is done to any class of labour, however low its 'worth' may be, and no remedy exists for poverty except through improved efficiency of the workers. If our political economists can bring this gospel of marginalism home to the hearts and heads of the working-classes, these will set aside all their foolish attempt to get higher wages out of rents and property and will set themselves to producing by harder, more skilful and more careful labour an enlarged product, the whole or part of which may come to them by the inevitable operation of the economic law of equal distribution at the margin!

It is right to add that an attempt is sometimes made to bring marginalism into a measure of conformity with the notorious fact that large discrepancies exist in the rates of remuneration for capital or labour or both in various industries, by treating these inequalities as brief temporary expedients for promoting the 'free flows' of productive power from less socially productive into more socially productive channels, and for stimulating improvements in the arts of industry. Abnormal gains, of the nature of prizes or bonuses, are thus obtainable by individual employment, or by groups of employers, who are pioneers in some new industry or in the introduction of some new invention or other economy. But these rewards of special merit, it is argued, are not lasting, but disappear so soon as they have performed their socially serviceable function of drawing into the favoured employments the increased quantity of new productive power which will restore the equality of productivity and remuneration 'at the margins'.

Now, even were it possible to accept this rehabilitation of *laissez-faire* theory, accepting this equalising 'tendency' as predominant and normal, and classifying all opposing tendencies

as mere friction, it would not supply a law of distribution that would satisfy the conditions of our 'human' law. It would afford no security of distribution according to 'needs', or human capacity of utilising wealth for the promotion of the highest standard of individual and social welfare. It would remain an ideally good distribution only in the sense that it would so apportion the product as to furnish to all producers a stimulus which would evoke their best productive powers, so contributing to maximise the aggregate production of marketable goods. Only so far as man was regarded as an economic being, concerned merely in the nourishment and improvement of his marketable wealth-producing faculties, would it be a sound economy.

Just as in the case of the older, cruder 'freedom of competition', it rests upon the fundamental assumption that all the product, the real income of the community, will be absorbed in 'productive consumption', defraying the bare 'costs' of maintaining and improving the productive powers of capital, labour and ability, for the further production of objective economic goods and services. It would remain open to the objection that it assumed an identity of economic wealth and human welfare which is inadmissible, and that it refused to provide that subordination of economic production and consumption to the larger conception of human welfare which sound principles of humanity require. Though all work might be most productively applied, it might still contain excessive elements of human cost, and though all products were productively consumed many of the finer needs of individual men and of society might still remain without satisfaction.

§ 9. But the full divergence between the operation of the actual economic law of distribution and the human law can best be discovered by unmasking the fundamental falsehood of all forms of the *laissez-faire* or competitive economy, viz. the assumption that the national income tends to be distributed in a just economy of costs. Is there in fact any operative law which distributes or 'tends' to distribute the £2,000,000,000 worth of goods that form our income, so that all, or even most of it, acts as a necessary food and stimulus to evoke the full and best productive work of those who receive it? Or, if there are failures

in this economical distribution, are they so few, so small, and so ephemeral, that they may reasonably be treated as 'friction', or as that admixture of error or waste which is unavoidable in all human arrangements?

Now it is of course true that the national income must continually provide for the subsistence of the labour, ability and capital, required to maintain the existing structure of industry and the current output of goods and services. The brain-workers and the hand-workers of every sort and grade, from artist and inventor to routine labourer, must be continuously supplied with the material and non-material consumables sufficient to enable them to replace in their own persons, or through their offspring, the physical and psychical wear and tear involved in their work. The fertility of the soil, the raw materials, fuel, buildings, tools and machines, requisite in the various productive processes, must similarly be maintained out of the current output. These bare costs of subsistence, the wages, salaries and depreciation funds necessary to replace the wear and tear of the human and material agents of production, are a first charge upon the national dividend. To refuse the payments which provide this subsistence would be suicidal on the part of the administrators of the income. They rank, from the standpoint of society¹ as costs of production. If the product which results from the productive use of these factors exceeds what is necessary to defray these costs, the surplus may be employed in either of two ways. It may be distributed among the productive classes in extra-payments so as to evoke by a set of economically-adjusted stimuli such enlarged or improved efficiency as will provide for a larger or a better product in the future. In a society of a progressive order where the numbers or the wholesome needs, or both, are on the increase, no surplus, however large, can be excessive for such provision. A socially sound and just distribution of the surplus would be one which absorbed it entirely in what may be called the 'costs of growth'. This, however, does not by any means imply that the whole of the surplus must ad-

¹ From the standpoint of the individual business firm 'costs of production' may include many higher rates of payments, necessary under the actual conditions of competitive industry to secure the use of the required agents

vantageously be distributed directly among the individual owners of labour, ability or saving power, in order to evoke from them the maximum extension of their several productive powers. A good deal of the surplus may, indeed, be thus applied in higher individual incomes of producers. But the State, politically organised society, must look to the 'surplus' for its costs, not only of upkeep but of progress. For whatever part we may assign to the State in aiding industrial production, all will agree that much of its work, in the protection and improvement of the conditions of life, is essential to the stability and progress of industry, and involves 'costs' which can only be met by a participation in the industrial dividend. It may even be urged that the claims of the State to maintenance and progress are equal to the claims of individuals upon the surplus. For it is evident that industrial progress demands that both individual and social stimuli and nutriment of progress must be provided from the surplus by some considered adjustment of their several claims. A surplus, thus properly apportioned in extra-subsistence wages and other payments to producers and in public income, would be productively expended and would thus contribute to the maximum promotion of human welfare.¹

§ 10. But though in such a society as ours a certain part of the surplus is thus 'productively' applied, and is represented in industrial and human progress, a large part is not so expended in 'costs of progress'. A large quantity of 'surplus' is everywhere diverted into unproductive channels. The income which should go to raise the efficiency of labour, to evoke more saving, and to improve the public services, is largely taken by private owners of some factor of production who are in a position to extort from society a payment which evokes no increase of productive efficacy, but is sheer waste. This power to extort superfluous and unearned income is at the root of every social-economic malady. Indeed, it often goes beyond the diversion of surplus from productive into unproductive channels. It often encroaches upon costs of maintenance. For the vital statistics of large

¹ For it must be kept in mind that the 'productive expenditure' to which reference is here made refers ultimately to a standard not of market but of human values.

classes of labour show that the food, housing and other elements of real wages, are insufficient for the upkeep of a normal working life and for the rearing of a healthy and efficient offspring. This means that surplus is actually eating into 'costs', in that the costs of maintenance, which sound business administration automatically secures for the capital employed, are not secured for the labour. The reason why this policy, which from the social standpoint is suicidal, can nevertheless be practised, is obvious. For the capital 'belongs to' the business, in a sense in which the labour does not. A sweating economy which 'lets down' the instruments of capital is of necessity unprofitable to the individual firms: a similar sweating economy applied to the instruments of labour need not be unprofitable. To the nation as a whole, indeed, regarded merely as a goods-producing body, any such withholding of the true costs of maintenance must be unprofitable. But there are businesses, or trades, where 'sweated' labour may be profitable to the employers or the owners of capital. There are many more where such a wage-policy, though not really profitable, appears so, and is actually practised as 'sound business'. How large a proportion of the 14,000,000 wage-earners whose incomes are paid out of our £2,000,000,000 come under this category of 'sweated' workers, we cannot here profitably discuss. But, apart from the great bulk of casual workers in all less skilled trades, there are large strata of skilled and trained adult-labour in the staple trades of the country which are not paid a full efficiency wage. Such are the large bodies of women employed in factories and workshops and in retail trade, at wages insufficient for their full keep. Indeed, it may safely be asserted that the average wage of an adult working-woman in this country, not in domestic service, is definitely below the sum required for her personal maintenance in accordance with modern requirements of life. The same statement also holds of the wage of agricultural labour in most districts of the midland and southern counties of England. In such employments the true economic 'costs' of maintenance are not provided out of the present distribution of the national income. Of a far wider range of labour is it true that the true wages of progressive efficiency, which we have seen are vital to the eco-

conomic progress of the nation, are withheld. Though this deprivation does not form the whole case for labour as stated from the 'human' standpoint, it constitutes the heaviest economic count against the current distribution of wealth. The full physical and spiritual nutriment, the material comforts, the education, leisure, recreation, mobility and broad experience of life, requisite for an alert, resourceful, intelligent, responsible, progressive working-class, are not provided either by the present wage-system, or by the growing supplements which the communal action of the State and the municipality are making to the individual incomes of the workers. Out of the growing productivity of industry an insufficient sum goes to the betterment of the workers.

In certain other respects also the current 'costs' distribution is exceedingly defective. The saving which goes to provide for the enlargement of the capital structure of industry is very wastefully provided. A large proportion of such savings as are contributed out of working-class incomes involves an encroachment upon their costs of progressive efficiency, and represents, from the standpoint both of the individual family and of society, bad economy. Moreover, the methods of collection and of application of such capital are so wasteful and so insecure as to render working-class thrift a byword in the annals of business administration.

§ 11. But these deficiencies in the economy of 'costs' can only be understood by a study of that large section of the national income which in its distribution furnishes no food or stimulus whatever to any form of productive energy. Even in the idealist *laissez-faire* economics we saw that rent of land was distinguished from the wages, interest and profits, which constituted the 'costs of production', and was described as 'surplus'. It was recognised that, where land was required for any productive purpose, its owners would receive in payment for its use any portion of the product, or its selling value, which remained over after the competitively determined 'costs' of capital and labour had been defrayed. The payment was economically necessary because suitable land for most industrial uses was scarce, and the amount of the payment would depend upon how much was left when capital and labour had received their share. For the land-

lord would take all the surplus. There are those who still insist that the owners of land are everywhere in this position of residuary legatees. Land, they think, is always relatively scarce, capital and labour always and everywhere relatively abundant. Free competition then between the owners of the relatively abundant factors will keep down the price for them to bare 'costs', leaving a maximum amount of surplus which the so-called land 'monopolists' will receive as rent. This surplus evokes no productivity from the soil or its owners; its payment does nothing to stimulate any art of industry. But, if the landowner did not take it, and it was kept by farmers as profits, or by labourers as wages, it would be just as wasteful from the productive standpoint, as if it passed as rent, for, upon the hypothesis of such economists, the full competitive wages and profits are the only payment entitled to count as cost, and no addition to such payments would increase the productivity of capital or labour.

§ 12. Now though there have been times and countries in which rent of land was the only considerable surplus, this is not the case in any developed industrial community to-day. Other factors of production, capital, ability, or even in some instances labour, share with land the power to extort scarcity prices.

The hypothetical abundance, mobility and freedom of competition, which should prevail among all owners of capital, ability and labour, keeping down all their remuneration to a common minimum, are everywhere falsified by industrial facts. At various points in industry capital or managerial ability is found strongly entrenched against the competition of outsiders, and able to set limits upon internal competition. Wherever this condition is found, the owners of the capital or the ability so advantageously placed are able to obtain a 'surplus', which, in its origin and its economic nature and effects, nowise differs from the economic rents of land. The fluidity and complete freedom which appear to attach to the term capital, so long as we treat it in its abstract financial character, disappear as soon as for capital we substitute certain skilfully made machinery constructed under patent rights and operated by more or less secret processes, turning out, with the assistance of carefully trained and organised labour, goods which enjoy a half-superstitious

fame and special facilities of market. An examination of the capitalist system will disclose in every field of industry numerous instances of businesses or groups of businesses, sometimes constituting whole trades, which by reason of some advantage in obtaining raw materials, transport or marketing facilities, public contracts, legal privilege or protection, by using some superior process of manufacture, skill in advertising, established reputation, financial backing, or by sheer magnitude of operations, are screened from the full force of free competition, and are earning interest and profits far exceeding the minimum. Some such businesses or groups of businesses possess a virtual monopoly of the market, and can control output and prices, so as to secure abnormal dividends. Such control is, to be sure, never absolute, its control of prices being subject to two checks, the restriction of demand which attends every rise of prices, and the increasing probability of competition springing up if profits are too high. But qualified monopolies, earning dividends far larger than are economically necessary to support the required capital, are everywhere in evidence. Trusts, cartels, pools, combines, conferences, and trade agreements of various potency and stringency, pervade the more highly organised industries, substituting the principle of combination for that of competition. In all major branches of the transport trade by land and sea, in large sections of the mining industry, in the iron and steel industry and in many branches of machine-making, in many of the specialised textile trades, in the chemical and other manufactures where special scientific knowledge counts, in many departments of wholesale and retail distribution, and, last not least, in banking, finance and insurance, freedom of investment and of competition have virtually disappeared. To assume that fresh streams of capital, labour and business ability, have liberty to enter these fields of enterprise, and by their equal competition with the businesses already in possession so to increase the output, lower selling prices and keep interest and profits at a bare 'costs' level, is a childish travesty of the known condition of these trades. To affirm that such mobility and liberty of competition is the sole normal 'tendency', and that the monopolistic and combinative forces merely represent friction, is so grave

a falsification of the facts as to put out of court the whole method of economic interpretation which is based thereon. Concrete capital has none of the qualities assigned to the abstract capital of these economists. It is neither infinitely divisible, nor absolutely mobile, nor accurately directed, nor legally and economically 'free' to dispose itself in any part of the industrial system where the current interest or profit exceeds the average. Over large tracts of industry combination is more normal and more potent than competition, and where this is not the case, the most competitive trades will be found honeycombed with obstructive clots, businesses enjoying special advantages and earning correspondingly high profits.

§ 13. Because certain qualities of business ability are requisite, to wit astuteness, keenness of judgment, calculating power, determination, capacity for organisation and executive ability, it is sometimes claimed that the high rates of profit which accrue from such businesses as we have indicated are really the creation, not of monopoly or combination, but of the talents of these *entrepreneurs*. But even though it be admitted that some such ability is essential to produce or to maintain a successful combination, can the entire profits of such a combination be imputed to this ability or regarded as its natural and proper reward? Take the common instance of the 'forestaller', who stops the supply of some commodity on its way to a market, secures the whole supply at competitive prices from the various contributors, and then sells it at a monopoly price fixed by himself. Are the profits of this corner a product of ability and a reward of ability, and not a 'surplus' representing an artificially contrived scarcity value? Or take the case of a contracting firm, which persuades all the other firms in a position to compete to come into an arrangement as to a minimum tender. Are the extra profits due to such an arrangement to be regarded as wages of ability, because some tact was needed to work the thing? But suppose we granted the whole contention, and agreed that the extra dividends paid to shareholders in favoured or protected businesses were really produced by the ability of the *entrepreneur* or manager, what then? It is not proved that these extra profits are 'costs', not 'surplus'. On the contrary, the fact that they can be taken as

extra dividends or bonuses by the owners of the capital, instead of passing in 'wages of ability' to the *entrepreneur*, is proof positive that they are surplus. For if they were a subsistence wage of ability, or even a 'prize', essential to evoke some special output of skill or energy, they could not be thus diverted from the *entrepreneur* to the shareholders. In fact, there is no reason to suppose that any very rare or conspicuous ability is evinced in working a successful pool or combine, or even in organising a successful business. Still less is there reason to suppose that the profits attending such an enterprise are in any way proportionate to the skill or energy of the *entrepreneur*. Everyone is aware that the contrary is the case. Indeed, so far as scientific, professional, and business ability is industrially useful and has a claim to income, enquiry shows that there is no better security for mobility, freedom of competition and equality of payment, than in the case of capital. Inequalities of economic conditions between various classes of our population, involving inequalities of nurture and of education, and of every other sort of 'opportunity' relevant to the discovery, training, equipment and success of 'natural ability', set up a series of almost impenetrable barriers to the free flow of natural ability throughout the industrial system, and give rise to an elaborate hierarchy of restricted employments where the rates of remuneration represent, not any inherent services of ability, but the degree of the restriction in relation to the importance of the work. All such advantages of opportunity are reflected in rates of payment for 'ability' which carry elements of 'surplus.'

Though some portion of the higher remuneration paid to successful professional workers may be regarded as interest upon the capital-outlay of their education and training, there is no reason to hold that the extra payment is adjusted to the costs of this outlay. Still less can any such argument avail in the case of high business profits. Though ability and expensive training may be favouring conditions to such financial success, restricted competition must be accounted the principal direct determinant of all such extra payments.

§ 14. There remains one final demurrer to our doctrine of the unproductive 'surplus'. If you take into consideration, it is

urged, all the unsuccessful as well as the successful businesses, you will find that the average return for capital and for business ability is low enough, not in fact more than represents a bare 'costs' economy. Similarly with the high incomes earned by the few successful men in the professions and in other walks of life. Set the failures fairly against the successes and there is no net 'surplus' to take account of.

But this contention is one more abuse of the method of averages. To the charge that one man is overpaid, it is no answer that another is underpaid. To the statement that surplus emerges in the payment for some orders of capital or ability it is no answer to say that other capital and ability does not even get its true 'costs' or subsistence wages. The force of this rebuttal is still further strengthened when it is realised to what extent the success of those who succeed is directly responsible for the failure of those who fail. For the economic strength of those whose superior advantages have secured for them a position of control will necessarily operate to make the competition of outsiders difficult and their failure probable. Indeed, a portion of the gains which combination yields will often be consciously applied to kill the competition of outsiders, or to restrict their trade to the less profitable or the more precarious forms of enterprise. But even where this business policy is not adopted, the very fact that strong firms and 'combines' control many markets, must, by limiting the area of free competition, intensify the competition within that area and so cause the failures to be numerous.

The contention, that the excessive profits of successful firms are balanced and in some way cancelled by the losses of those that fail, is also contradicted by the psychology of the case. If it could be shown that the chance of winning these high gains was in fact a necessary inducement to the winners to stake their capital and business capacity in an inherently risky line of enterprise, there might be some force in this plea. But to the men who achieve these successes business is not a simple game of hazard in which they have merely the same chance as the others. Success is commonly achieved by force, strategy and the possession of known advantages, and is used to strengthen these ad-

vantages and so to increase continuously the 'pull' by which they accumulate their gains and ruin their would-be competitors. Although tight forms of monopoly are very rare, loose or partial restrictions upon competition are very numerous and often very profitable. All these extra gains, issuing from various forms of natural or contrived scarcity in all sorts of industries, are rightly classed as unproductive surplus. Many of them are as constant and as certain as the economic rents of land, arise in the same way from a limitation of some productive factor, and are 'unearned' income in the same sense of that term. Other of these gains are more fluctuating, proceeding from less stable forms of privilege or combination, but while they exist they equally belong to unproductive 'surplus'.¹

§ 15. The distinction between that portion of the social income which goes as necessary payments to support and evoke the energies of body and mind of wealth-producers, i. e. costs of production, and that which goes as unproductive 'surplus' to those who, possessing some necessary instrument of production that is relatively scarce, can exact a scarcity price, is fundamental in a valuation of industry. For this surplus not only represents sheer economic waste, regarded from the social standpoint, but it can be shown to be directly responsible, as an efficient cause, for most of those particular maladies in our current processes of production and consumption which impede the economic and the human progress of the nation.

For if our analysis of this surplus is correct, it consists in the seizure of a large portion of the fruits of individual and social productive energies, required for the full support and further

¹ Economists, following the classical distinction made by Adam Smith in the case of land-values, may break up the surplus into various species of scarcity rents on the one hand and differential rents on the other. A scarcity or 'specific' rent will occur when the whole supply of some factor of production, e. g. all the land available for some particular use, or all the capital employed in some trade, is in a position to take a payment higher than is obtainable where more land or capital is available for this particular use than is required to turn out the supply of goods that is actually sold. The worst hop land in use in England obtains a positive rent, the worst equipped ships in the Atlantic combine obtain a surplus-profit; better acres of hop land, better-equipped ships obtain a differential rent or profit in addition. Both specific gain and differential gain are surplus, and the basis of each is a scarcity of supply and a restraint of competition.

stimulation of these energies and for the wider human life which they are designed to serve, and their assignment to persons who have not helped to make them, do not need them, and cannot use them. The payment of surplus takes large sections of the income, needed to raise the economic and human efficiency of the working-classes, or to enable society to enlarge the scope and to improve the quality of the public services, and disposes them in ways that are not merely wasteful but injurious. In effect, all the excessive human costs of production and all the defective human utilities of consumption, which our separate analysis of the two processes disclosed, find their concrete and condensed expression in this 'surplus'. The chief injuries it causes may be summarised as follows:

(1) Flowing abundantly as 'unearned' income into the possession of 'wealthy' individuals and classes, it thereby causes large quantities of the national income to be consumed with little or no benefit. For much, if not most, of this surplus, being devoted to luxury, waste, extravagance and 'illth', furnishes by its expenditure not human utility but human 'cost', not an enhancement but a diminution of the sum of human welfare.

(2) By enabling its recipients to disobey the sound biological and moral precept, 'In the sweat of thy face thou shalt eat bread,' it calls into being and sustains a leisured or unemployed class whose existence represents a loss of productive energy and of wealth-production to the nation.

(3) The evil prestige and attraction of the life of sensational frivolity this idle class is disposed to lead tends by suggestion to sap the wholesome respect for work in the standards of the rest of the community, and to encourage by servile imitation injurious or wasteful methods of expenditure.

(4) The economic necessity of producing this surplus imposes excessive toil upon the productive classes, being directly responsible for the long hours and speeding-up which constitute the heaviest burden of human costs. The direction which the expenditure of the surplus gives to capital and labour degrades the character of large bodies of workers by setting them to futile, frivolous, vicious or servile tasks.

(5) The disturbing irregularity of the trades which supply

the capricious and ever-shifting consumption, upon which the 'surplus' is so largely spent, imposes upon the workers a great cost in the shape of irregularity of employment, and a considerable burden of costly saving by way of insurance against this irregularity.

(6) By stamping with the badge of irrationality and inequity the general process of apportionment of income, the surplus impairs that spirit of human confidence and that consciousness of human solidarity of interests which are the best stimuli of individual and social progress.

The surplus element in private income thus represents the human loss from defects in the current distribution of wealth, not only the loss from wasteful and injurious consumption but from wasteful and injurious production, an exaggeration of human costs and a diminution of human utilities. The primary object of all social-economic reforms should be to dissipate this surplus and to secure its apportionment partly as useful income for individual producers, partly as useful income for society, so that, instead of poisoning the social organism as it does now, it may supply fuller nourishment and stimulus to the life of that organism and its cells.

Thus directed, partly into higher wages of efficiency for workers, partly into further income for the enrichment of the common life, the 'surplus' will in effect cease to be surplus, being completely absorbed in satisfying the human requirements of individuals and society. For not only will it furnish the expenditure required to bring the standard of consumption of all grades of workers up to the level of a full satisfaction of human needs, but it will establish an entirely new conception of public income. For it will be recognised that the public revenue, taken either by taxation or as profits of public industry, is earned by public work precisely as the revenue of individuals is earned by private work, and is required for public consumption just as private income is required for private consumption. Thus the whole of what now figures as a wasteful 'surplus' would be applied in productive consumption.

The scope of the operation of this organic law, of course, widely transcends this special application to the distribution

of economic income. It is the general law of order and of progress in all departments of organic activity. But for our task, that of a human valuation of industry, its worth is supreme. For in the application of the organic law of distribution all the great antagonisms which loom so big as social Problems, Luxury and Poverty, Toil and Idleness, The Individual and Society, Authority and Liberty, find their solution.¹

¹ For a detailed and more technical defence of the fundamentally important distinction between 'costs' and 'surplus' and for a closer analysis of the sources of 'unproductive surplus', readers may be referred to the author's earlier work, *The Industrial System: an enquiry into earned and unearned income*. (P. S. King & Son.)

NOTE

The great world-depression exhibits in its plainest mischief the working of this irrational 'surplus'. The large proportion of it which passes automatically into 'savings' enlarges productive capital beyond the limits of profitable production. Over-production, by lowering prices and profits, checks the further passage of money savings into investment, and renders much existing plant and other capital unworkable. This 'surplus' thus figures as the prime cause of trade depressions and unemployment, operating through financial disturbances which are wrongly interpreted as direct causes. For a further statement of this argument, see the author's *Poverty in Plenty* (Allen & Unwin, 1932).

CHAPTER XIII

THE HUMAN CLAIMS OF LABOUR

§ 1. The validity of the human law of distribution is well tested by considering the light it sheds upon the modern claims of Labour and the Movement which is endeavouring to realise these claims. For the significance of the Labour Movement will continue to be misunderstood so long as it is regarded as a mere demand for a larger quantity of wages and of leisure, important as these objects are. The real demand of Labour is at once more radical and more human. It is a demand that Labour shall no longer be bought and sold as a dead commodity subject to the fluctuations of Demand and Supply in the market, but that its remuneration shall be regulated on the basis of the human needs of a family living in a civilised country.

At present most sorts of labourers are paid according to the quantity of labour-power they give out, and according to the market-price set upon a unit of each several sort of labour-power. This means that the actual weekly earnings of some grades of labourer are much higher than those of other grades, not because the work takes more out of them, or because it involves a higher standard of living, but because some natural, some fortuitous, or some organised scarcity of supply exists in the former grades, while there is abundance of supply in the latter.¹ Moreover, the weekly earnings for any of these sorts of labour will vary from week to week, from month to month, or year to year, with the variations of Supply and Demand in the Labour Market. The income of the working family will thus vary for reasons utterly beyond its control, though its requirements for economic and human efficiency show no such variation. Thus there is no security for any class standard of living.

Within each class or grade of labour there will be variations

¹ The width of variations in the weekly earnings, involving in most instances a nearly corresponding variety of family income, may be illustrated by the following

of the individual family wage, based on the amount of labour-power actually given out in the week. A less effective worker, estimate compiled by Mr. Webb, from a careful analysis of official wage returns. *New Statesman*, May 10, 1913.

TABLE SHOWING ESTIMATED EARNINGS OF EMPLOYED MANUAL WORKING WAGE-EARNERS IN THE UNITED KINGDOM IN THE YEAR 1912

MEN

Class	Numbers	Average rate of earnings in a full week (including all emoluments)	Average wages bill for a full week	Yearly wages bill (allowing 5 weeks for short time, sickness, involuntary holidays and unemployment)
<i>Men in Situations:</i>		<i>s. d.</i>	<i>Million £</i>	<i>Million £</i>
Below 15s.	320,000.. 4%	(abt.) 13.0	0.21	10
15s. to 20s.	640,000.. 8%	(abt.) 18.0	0.58	27
20s. to 25s.	1,600,000.. 20%	22.6	1.80	85
25s. to 30s.	1,680,000.. 21%	27.6	2.31	109
30s. to 35s.	1,680,000.. 21%	32.6	2.73	128
35s. to 40s.	1,040,000.. 13%	37.6	1.95	92
40s. to 45s.	560,000.. 7%	42.6	1.20	56½
Over 45s.	480,000.. 6%	50.0	1.20	56½
Men in Situations ..	8,000,000.. 100%	30.0	12.0	564
Casuals.	700,000	12.0	0.42	18.5
Adult Males.	8,700,000	28.4	12.42	582.5
Boys.	1,900,000	10.0	0.95	44.0
All Males.	10,600,000	25.3	13.38	626.5

Average Earnings per Adult Man throughout the year: ($\frac{622}{5.7}$) £66.95 or £15.9 per week.

WOMEN

Class	Numbers	Average earnings in a full week	Average weekly wages bill for a full week	Yearly wages bill (net as above)
		<i>s. d.</i>	<i>Million £</i>	<i>Million £</i>
Women.	3,000,000	12.0	1.8	85.0
Girls.	1,500,000	8.0	0.6	28.0
Casuals.	100,000	3.6	0.015	0.5
All Females.	4,600,000	10.6	2.415	113.5

Average Earnings per Adult Woman throughout the year: ($\frac{80}{2.1}$) £27.58, or 10s. 7d. per week.

Total Wages Bill (both sexes) for the year, net: £740,000,000.

even though he puts out as much effort, will earn less money than a more effective. This seems necessary, reasonable and even just, so long as we accept the ordinary view that labour should be bought and sold like any other commodity.

But once accept the view that to buy labour-power, like other commodities, at a price determined purely by relations of Supply and Demand, is a policy dangerous to the life and well-being of the individual whose labour-power is thus bought and sold, to those of his family and of society, your attitude towards the labour-movement in general, and even to certain demands which at first sight seem unreasonable, will undergo a great change.

The fundamental assumption of the Labour Movement, in its demands for reformed remuneration, is that the private human needs of a working family should be regularly and securely met out of weekly pay. The life and health of the family, and that sense of security which is essential to sound character and regular habits, to the exercise of reasonable foresight, and the formation and execution of reasonable plans, all hinge upon this central demand for a sufficiency and regularity of weekly income based upon the human needs of a family.

§ 2. This explains alike the working-class objections to piece-work, the demand for a minimum wage, and the policy of limitation of individual output. For piece-work, even more than time-work, is based upon a total ignoring of the human conditions which affect the giving out of labour-power. It is the plainest and most logical assertion of the commodity view of labour, the most complete denial that the human needs of the worker have any claim to determine what he should be paid.

So firmly-rooted in the breast of the ordinary non-working man, and of many working-men, is the notion that a man, who has produced twice as large an output as another man, ought, as a simple matter of right or justice, to receive a payment twice as large, that it is very difficult to dislodge it. It represents the greatest triumph of the business point of view over humanity. If a man has done twice as much, of course he ought to receive twice as much! It seems an ethical truism. And yet I venture to affirm that it has nothing ethical in it. It has assumed this moral guise because of a deep distrust of human nature which

it expresses. How will you get a man to do his best unless you pay him according to the amount he does? It is this purely practical consideration that has imposed upon the piece-work system the appearance of axiomatic justice.

It is not difficult to strip off the spurious ethics of the principle. You say that piece-wages or payment by result is right because it induces men to do their best. But what do we mean by 'doing their best'? A weak man may hew one ton of coals while a strong man may hew two. Has not the former 'done his best' equally with the latter? The strength of a strong man, the natural or even the acquired skill of a skilful man, cannot be assumed as a personal merit which deserves reward in the terms of payment. If there is merit anywhere, it is in the effort, not in the achievement or product, and piece-wages measure only the latter.

No! there is nothing inherently just in the piece-wage system. Its real defence is that it is the most practical way of getting men to work as hard as they can: it is a check on skulking and sugaring. It assumes that no other effective motive can be made operative in business except quantity of payment.

§ 3. As Ruskin and many others have remarked, the lie is given to this assumption in an increasing number of kinds of work where the highest qualities of human power, the finest sorts of mental skill and responsibility, are involved. Public servants of all grades, from Cabinet Ministers and Judges down to municipal dustmen, are paid by salaries, not by piece-wages. The same is true of the more remunerative and more responsible work in private businesses. No Government, no private firm, buys the services of its most valuable employees at the lowest market-price, or attempts to apply to them a piece-work scale. It would not pay them to do so, and they know it. Nor is this merely because some sorts of work do not easily admit of being measured by the piece. It would be possible to pay Judges, as counsel are paid, by the case: Cabinet Ministers might be paid on piece-wages for Laws measured by the number or length of their clauses. The chief reason for adopting payment by fixed salary is that it is reckoned a wise mode of securing good individual services. It is recognised that each piece of work will be

better done, if the workers set about it in a thoroughly disinterested manner, concentrated in their thoughts and feelings entirely on the work itself, and not entangled in the consideration of what they are to get out of it. This is supposed to be the difference between the professional man and the tradesman, that the former performs a function and incidentally receives a fee, while the latter, by the very acts of buying and selling that constitute his business, keeps his mind set upon the profit from each several transaction.

But the fixed and guaranteed salary for public servants has another ground. It may profit a business firm to practise an economy of sweating, to drive its employees and consume their health and strength by a few years' excessive toil, to take on new casual workers for brief spurts of trade, to sack employees ruthlessly, as soon as trade begins to flag, or their individual powers of work are impaired by age. A piece-work system, with no guarantee of employment or of weekly wage, may be a sound business economy for a private firm. It cannot be a sound economy for a State or a Municipality.

For a large and increasing share of the work and the expenditure of most States and Municipalities is applied in trying to mend or alleviate damages or dangers to the health, security, intelligence, and character of the workers and their families, arising from insufficiency of work and wages or other defects of private industrialism. It would obviously be bad public economy to break down the lives and homes of public employees by underpaying or overworking them, or by dismissing and leaving them to starve when work was slack. For what was saved in the wage-bill of the particular department, would be squandered in poor-law, police, hospitals, old-age pensions, invalidity and employment relief. Nor is that all. A mass of ill-paid, ill-housed workers, alternately overworked and out of work, stands as a chief barrier in every one of those paths of social progress and national development which modern statecraft sets itself to follow. The low wage of unskilled labour is to-day a source of infinite waste of the forces of national education. Still keeping our argument upon the narrowest lines of economy, we plainly realise that the financial resources, upon which the State can

draw for all her services, depend in the last resort upon the general economic efficiency of the working population, and that a system of public employment which was, however indirectly, detrimental to this health, longevity and intelligence, would rank as bad business from the public standpoint.

It is true that in this country the salary mode of payment is gaining ground. Apart from the public services, national and municipal, which employ a large percentage of the total employed population, the great transport and the distributive industries are almost entirely run upon the salary basis. These departments of industry are constantly increasing, not only in absolute size, but in the proportion of the total employment they afford. To them must be added the large class of domestic service. Such great salaried services cannot, indeed, be claimed as triumphs for the organic principle of distribution, or payment according to needs. For the most part they are very unsatisfactory modifications of the piece-wage or commodity view of labour. For, except for the small higher grades of officials, they mostly retain the two chief defects of the ordinary wage-system, a payment of weekly income not based on a proper computation of human needs, and a lack of adequate security of tenure. Over a large part of the field of industry and commerce where weekly fixed salaries are paid, there exists a flagrant disregard for all considerations of human subsistence. Some of the worse, though not the worst, forms of 'sweating' are found in shops, workshops and factories where women are employed on weekly salaries.

None the less, it remains true that the salary is a more rational form of payment for labour than the time or piece wage, and that, as the humanisation of industry proceeds, it will more and more displace the wage-system. For where salaries are paid, the consideration of needs or subsistence does tend always to qualify the mere commodity view of labour.

Piece-wage or time-wage ignores the worker as a human being and the supporter of a family: it ignores him as a personality and regards him merely as an instrument for giving out units of productive power to be paid for on the same terms as the units of mechanical power used in working machinery.

§ 4. The Labour Movement insists that the personal and

human factor is fundamental as a condition in the labour bargain. If labour is treated as a mere commodity, its price affords no security of life to the labourer. It may not find a customer at all, and so he starves and with him his family, the future supply of labour. Or, left to the fluctuations of the market, it may sell at a price which is insufficient for his maintenance. The fluctuations of price in all other markets involve only the pecuniary profit or loss of those who sell, fluctuations of the price of labour involve the existence and well-being of human families and of the nation. Hence the attack of organised labour on this whole conception of the labour-market, and the demand that the remuneration of labour shall not be left to the higgling of a market.

The chief fight is for a secure weekly income, or for conditions of employment which lead up to this. A minimum or a living wage is the usual name given to this demand. Complaint is made of the vagueness of the demand. But this vagueness does not make the demand unreasonable. A living wage indeed is elastic as life itself: it expands and will continue to expand, with the development of life for the workers. But what in effect is meant at the present by a living or subsistence wage is such a regular weekly sum as suffices to maintain the ordinary working family in health and economic efficiency.

It is contended that no purchase of labour should be permitted which entails the degradation of that standard. When a minimum rate of piece-wages is demanded, the implicit understanding is that it is such as will yield under normal conditions the ordinary weekly subsistence or standard wage. Since piece-wages are so firmly established in many trades that it is impracticable to demand their immediate abolition, the actual struggle between employees and employers is as to whether these piece-wages shall be allowed to fluctuate indefinitely, being dragged at the heels of the prices of commodities, or whether an absolute limit shall be set upon their fall. The employer says, 'When trade is good and prices and profits high, labour will share the prosperity in high rates of wage and large weekly earnings: so, when trade is bad and prices and profits low, labour must share this adversity and take low pay.' Organised labour replies, 'No, there is no parity between the power of capital and of

labour to bear depressions: capital is strong and can bear up against low profits without perishing, labour is weak and cannot bear up against low wages. We will only sell our labour-power on condition that a lower limit is set upon its price, such a limit as will enable the labourer to keep body and soul together, and to maintain that efficiency which constitutes his working capital. This minimum wage should be regarded as a fixed cost in your production. At present the prices of your goods oscillate without any assigned limit. You accept low contracts for work, and then adduce this low price as a reason for reducing wages. Let a minimum wage once be adopted in the trade, and contract prices cannot be accepted on so low a level. The minimum wage will thus help to steady selling prices and to regulate employment and output.'

But though the economics and the social ethics of this labour contention are in substance sound, their full efficacy depends upon their application throughout the industrial system. The 'economy of high wages', i.e. the theory that high wages evoke a corresponding increase of labour efficiency and output, so lowering costs of production, has no such general validity as was once claimed for it. In other words, a sweating policy sometimes 'pays' from the standpoint of employers' profit, though not from the standpoint of society. It can only disappear when it is made evident that the restricted demand for commodities, which sweating involves on the part of the workers, also restricts production and makes trade unprofitable. Whereas in some instances State intervention, such as the action through Trade Boards, or Wage Boards, may serve to enforce this social policy, in the wider fields of industry where world markets are concerned, nothing short of international controls can be efficacious in securing a minimum wage.

§ 5. Although this minimum wage is tolerably remote from the ideal of a fixed weekly salary in most trades, it is a true step in this direction. The most controverted item in trade-union policy, the limitation of individual output, is also partly actuated by the same motive. Few things make the ordinary business man more indignant than the trade-union regulations in certain

trades which restrain stronger or quicker workers from putting forth their full productive energy. They denounce alike its dishonesty and its bad economy. It is based, they say, upon the 'lump of labour' fallacy, the false notion that there exists an absolutely limited amount of employment, or work to be done, and that if the stronger or quicker men do more than their share, the others will go short. This refusal to allow each man to do his best, like the related refusal to get the full work out of new labour-saving machinery, appears monstrously perverse and wicked. But, though partly animated by short-sighted economic views, this policy is not entirely to be thus explained. The levelling down of the output of all workers to a standard has partly for its object the establishment of greater evenness of income among the workers in a trade. At any given time in a given mill, or factory town, the actual amount of available employment *is* limited, and for the time it is true that by limitation of individual output a larger number of workers are employed, and a larger number of working families are provided with a normal wage, than would have been the case if a certain number of men were encouraged to an unrestricted energy and unlimited overtime. In the long run, it may be better to encourage full individual liberty of output, even in the interest of the aggregate of employment, but the restraints to which I here allude become more intelligible when they are regarded as attempts to enforce a common class weekly wage by means of an even distribution of employment.

A minimum piece-wage, based on a moderate computation of the weekly output per worker, and accompanied by a substantial security of full regular employment, would in effect place the piece-worker in the position of a salaried employee. But, of course, a minimum piece-wage, however high, does not go far to this end, unless security of tenure at fairly full employment is obtained. The problem of un- and under-employment and of irregular employment is now beginning to be recognised in its full social gravity. A weekly wage of bare efficiency with regular employment is socially far superior to a higher average wage accompanied by great irregularity of work. The former admits stability of modes of living and ready money payments: it con-

duces to steadiness of character and provision for the future without anxiety. Rapid and considerable fluctuations of wages, even with full employment, are damaging to character and stability of standards: but irregularity of employment is the most destructive agency to the character, the standard of comfort, the health and sanity of wage-earners. The knowledge that he is liable at any time, from commercial or natural causes that lie entirely outside his control, to lose the opportunity to work and earn his livelihood, takes out of a man that confidence in the fundamental rationality of life which is essential to soundness of character. Religion, ethics, education, can have little hold upon workers exposed to such powerful illustrations of the unreason and injustice of industry and of society.

The regularisation of industry, so as to afford substantial guarantees of full regular employment, thus ranks with the minimum wage as the most substantial contribution towards the substitution of salary for wages, which the organic law of Distribution requires. The State is beginning to coöperate with the Labour Movement for the attainment of this social object, stimulating employers to organise their industries so as to furnish a more even volume of employment.

§ 6. This interpretation of the Labour Movement as a half-conscious manifold endeavour to rescue the remuneration of Labour from the risks and defects of the competitive labour-market, and to establish it on an economy of human needs, is not fully understood without some further reference to the action of organised society. The Labour Movement, in its endeavour to get a better distribution of the income, is not confined to trying to secure a satisfactory minimum or standard wage, fortified by greater security of work and personal insurance against unemployment. It seeks also to supplement its wages by cooperative and public provisions.

The Coöperative Movement is an attempt to convert into real wages some of the profits of employers and shareholders in manufacturing and commercial businesses, so enlarging the proportion of the real income of the nation which goes to the remuneration of labour. But the growing attachment of the Labour Organisations to politics is equally motivated by the endeavour to secure

from the State, not merely legal supports for higher wages and improved conditions of employment, but actual supplements to wages in the shape of contributions from the public services to their standard of living. Free education, old-age pensions, and public subsidies towards insurance are a direct contribution from the State to the higher standard of life which modern civilised society demands. Health, education, recreation, and provision against emergencies, are coming more and more to be recognised as proper objects of governmental action, and other important services, such as transport, credit, art, music and literature, are far on the way to becoming communal supplies. Although these modes of social provision may be chiefly motivated by considerations of public health and other common goods, they nevertheless must rank as contributions to the standard of comfort and well-being of the working-class families who are the special beneficiaries. Relieving, as they do in many instances, the private incomes of the workers from expenditure which otherwise the family would find it to its private interest to incur, these growing public services form a genuine and a considerable contribution to the available real income of the working-classes. So far as by taxation direct or indirect the cost of such public services can be considered a burden upon, or a deduction from the wage-income of the workers, it forms, of course, no net addition to their share, but is only a public control over methods of expenditure. But inasmuch as the distinct tendency of modern taxation is towards an increasing taxation of the incomes and property of the non-working classes, these public services rank as supplementary income, paid in kind, and tending to equalise the standard of living of individual workers and grades of workers. The criticism sometimes directed against this State socialism, upon the ground that it tends to weaken the force of wage-bargaining and transfers to the shoulders of 'society' costs which employers would otherwise have to bear in the shape of higher money wages, would have considerable force, if the old *laissez-faire* principle of 'free contract' were allowed otherwise to work unimpeded. But this, as we see, is not the case. The growing policy of minimum and standard rates, supported by public opinion and, where necessary, by public law, and hardening

into a policy of fixed salaries, is nowise inconsistent with a simultaneous development of communal supplies of goods and services which usually lie a little above the normal standard of comfort of those who are the chief beneficiaries.

The growing political activities of a labour movement which once eschewed State aids not merely attest the general growth of conscious democracy but imply a recognition of the direct contribution which the State is making towards a general distribution of the national income in accordance with an economy of human needs.

CHAPTER XIV

THE DISTRIBUTION OF LEISURE

§ 1. Leisure, regarded as an economic good, comes under the general law of distribution of wealth. But the notorious defects of its distribution, and their human consequences, are such as to claim for it a separate place in our enquiry. Modern industrialism by its large unearned surplus has greatly increased the size of the leisure classes. For wherever such surplus goes, there is the possibility and probability of a life of leisure. In our study of Consumption we traced the part played by conspicuous leisure as an element of pride and power in the economy of the rich. In Great Britain the size of this leisure class is by no means measured by the number of those who stand in the census as 'unoccupied.' In the top stratum of the business world we find considerable numbers of the directing and managerial class who are seldom or ever 'busy.' Their office hours are short and irregular, their week-ends extend from Friday to Tuesday, their holidays are long and frequent.

Most of their leisure is accompanied by profuse consumption, involving thus from the standpoint of society a double waste, a waste of time and of substance. Where does all this leisure come from? The answer to this question seems tolerably simple. It has often been observed that labour-saving machinery and other devices for abridging human toil have done very little to lighten or shorten the work-day for the workers. What then has become of the labour that is saved? Most of it has gone to enlarge the leisure of the leisured class, or perhaps we should say, of the leisured classes. For we saw that there existed a lower as well as an upper leisure class, a necessary product of the same mal-distribution of resources as sustains the latter. For an industrial system that grinds out unproductive surplus breaks down the physical and moral efficiency of large numbers of actual or potential workers as a by-product of the overdriving

and underfeeding process. The reckless breeding of the class thus broken down furnishes a horde of weaklings, shirkers and nomads, unassimilated, unassimilable by the industrial system. These beings, kept alive by charity and poor-laws, have grown with modern industrialism and constitute the class known as 'unemployables.' They are often described as a 'standing menace to civilisation,' and are in fact the most pitiable product of the mal-distribution of wealth.

§ 2. But the irregularities of modern production and consumption are also responsible for a vast amount of involuntary and injurious leisure among the genuine working-classes. That leisure is commonly termed 'unemployment.' It is not true leisure, in the sense of time for recreation or enjoyment, though it might become so. For the most part it is at present wasteful and demoralising idleness.

A certain amount of unemployment is of course unavoidable in any organisation of industry. There will be some leakage of time between jobs and unpredictable irregularities of weather and climate will involve some idleness. Expansions and contractions of special trades, changes in methods of production and of consumption, the necessary elasticity of economic life, will continue to account for the temporary displacement of groups of workers. There is, of course, no social wastage in this process, if it is properly safeguarded. But hitherto it has been a great source of individual and social waste. Society is only beginning to realise the duty, or indeed the possibility, of taking active steps to reduce the quantity of this unemployment and to utilise what is unavoidable for the benefit of the unemployed and of society. The cultivation of these spare plots of time in the normal life of the workers may become a highly serviceable art.

If all unemployment could be spread evenly over the working year, taken out in a shortening of the ordinary working-day and in the provision of periodic and sufficient holidays, an immense addition would be made to the sum of industrial welfare. Thus, without any reduction in the aggregate of labour-time, a sensible reduction in the human cost of labour might be achieved, if law, custom, or organised labour policy made it impossible for em-

ployers to vary violently or suddenly the volume of employment and to sandwich periods of over-time with periods of short-time. These baneful irregularities of employment appear inevitable so long as they remain permissible, as do sweating wages and other bad conditions of labour. When they are no longer permissible, the organised intelligence of the trade will adjust itself to the new conditions, generally with little or no loss, often with positive gain.

If there are trades upon which season, fashion, or other uncontrollable factors impose great irregularity of employment, a sound social policy will have close regard to the nature of this irregularity. Where an essentially irregular trade is engaged in supplying some necessary or convenience of life, as, for instance, in gas-works and certain branches of transport, alternative trades may be found whose fluctuations tend to vary inversely with those of the former trades, and which can furnish work suitable in kind and place to those who are out.

Statistics of employment show that the aggregate of employment during any given year does not vary much. It would vary less, if every man engaged in an essentially irregular trade had an alternative, in which he was qualified to earn a living when employment in the other trade was short. For there is little truth in the contention that specialisation for most manual trades is carried so far that an alternative or subsidiary employment spoils a worker for efficiency in his prime trade. If there are any necessary trades for whose unavoidable unemployment no such effective provision can be made, society must either saddle the trade with the obligation of keeping the 'reserve' of labour while it stands in waiting, or it must itself undertake the administration of the trade as one which cannot safely be left in private hands. In the case of fashion or luxury trades, which furnish many instances of greatest irregularity, legal prohibition of over-time will often operate most beneficially. Where much unemployment still remains, a high contribution to an unemployed insurance fund would stimulate advantageous readjustments. Finally, if there are trades incapable of bearing the true costs of maintenance of the labour they employ, it would still be right to place on them the obligation to do so,

for their destruction will be a gain not a loss to a society that understands its human interests.

But the main problem of leisure would still remain unsolved. For the normal burden of industrial toil, imposed by our present economic system upon most workers, is excessive. That excess consists primarily in duration of the work-day, though aggravated in many cases by intensity or pace of working. Great numbers of workers, especially among women, are employed in occupations where neither law, custom, nor trade organisation, imposes any limits. Though recent legislation on trade agreements has in recent years produced a sensible reduction in the working day, or week, in most organised industries in this and other Western countries, large departments of productive and distributive activity, especially domestic workshops and home trades, still retain excessive hours of labour.

The general knowledge that the increasing productivity of industry, due to recent improvements of technique and organisation, is the prime direct cause of the world-wide depression, has naturally sharpened the demand for a shorter working day, or a better distribution of that sort of leisure called unemployment. The personal demand for longer leisure is thus seen to flow naturally from the growing ability of industry to substitute non-human for human power in the productive processes. The equal distribution of this leisure appears to them the reasonable alternative to unemployment.

§ 3. This movement took shape long ago in the demand for an eight-hours day. Even then it was no immoderate demand. A regular contribution of eight hours energy of hand, brain, nerves, to some narrow or uninteresting work, was felt to be as much as, or more than, the ordinary man or woman could afford to give up to society. For we have recognised quite clearly that a specialisation of function, a division of labour, growing ever finer, is required of the individual in the interests of society. He must make this apparent sacrifice of his private tastes, feelings and interests for the good of the society of which he is a member. It is not, as we perceive, a real sacrifice, unless the demand made upon him is excessive, for the good of the society he serves

is his good, and what he gives out comes back to him in participation of the common life. But, when the task imposed is too long or too hard, the sacrifice becomes an injury, the encroachment upon the human life of the worker inflicts grave damage, which damage again reacts upon society.

The stress of the Labour Movement upon the urgency of shortening the work-day to-day is extremely significant. It testifies to two advances in the actual condition of the labouring classes. In the first place, it indicates that some substantial progress has been made towards a higher level of material standard of consumption. For workers on the lower levels of poverty dare not ask for reduced hours of labour, involving, as may well occur, a reduction of pay. Workers struggling for a bare physical subsistence cannot afford to purchase leisure.

Of course I know that even the better-to-do workers who voice a demand for a shorter day are not ready to proclaim their willingness to pay for it in diminished wages. Nor need they in all cases. Where the shorter day is attended by improved efficiency or increased intensity of labour, or merely by better organisation of the business, there may be nothing to pay. More leisure has been squeezed out of the working-day. There are many cases where this can be done, for the working-day in many instances is wastefully prolonged. But, though in certain trades a ten-hours day may be reduced to nine, or even eight, without any reduction of output, this is not the case in other trades, nor even in the former trades could the process be carried far without a loss of output. In a great many employments a short working-day will involve a larger economic cost of labour, and where, as is usual in competitive trade, this larger cost cannot be made good out of profits, labour will have to buy this leisure, in part at any rate, by reduced wages. For even if he can get it shifted on to the consumer in the shape of higher prices, as consumer he will in his turn have to bear a part of it.

Where the demand for shorter hours is genuine, and is not a mere cover for extended over-time, to be paid for at a higher rate, it must be taken as indicative of the workers' willingness

to take part of his share of industrial progress in leisure instead of wages.

§ 4. But leisure, as an economic asset, is not a mere question of hours. A shorter work-day might be dearly bought at the cost of an intensification of labour which left body and mind exhausted at the end of each day. The opposition of workers to a policy of speeding-up, or the use of pace-setters, is usually a sane act of self-defence, and not the fractious obstruction to industrial progress it is sometimes represented as. No considerations of human endurance limit the pace at which machinery driven by mechanical power may be worked. Unless, therefore, restraints are put by law, custom or bargaining, upon the speed of machines, or the number which a worker is called upon to serve, competition may impose a work-day which, though not unduly long in hours, habitually exhausts the ordinary worker. It is not always realised how great a change took place when the weaver, the shoemaker, the smith, passed from the workshops, where the pace and other conditions of work were mostly regulated by their voluntary action, to the steam-driven factory. The shoemaker and the tailor under the old conditions had time, energy and liberty for thought while carrying on their work: they could slacken, break off or speed up, their work, according to their inclination. The clicker or heeler in a shoe factory, the cutler-out in a clothing factory, have no such measure of freedom. This is, of course, a normal effect of modern industrialism. Closer and more continuous attention is demanded during the working hours.

Thus the real question of leisure is a question of spare human energy rather than of spare hours. The shorter working-day is chiefly needed as a condition favourable to spare energy. Though therefore, an eight-hours day may not unreasonably be taken as a proximate reform, for labour in general, there is no reason why the work-day in all occupations should be cut to this or any other exact measure. Such arithmetical equality would evidently work out most inequitably, as between trade and trade, or process and process in the same trade. In many large departments of industry, the transport and distributive trades in particular, numerous interstices of leisure are inserted in a day's work, easing

the burden of the day, and sometimes affording opportunity for recreation and intercourse. In the more arduous processes of manufacture, mining, or in clerical and other routine brain work, there is little or no scope for such relaxation.

But while such considerations evidently affect the detailed policy of the shorter day in its pressure on the several occupations, they do not affect the general policy.

There can be no doubt that an excessive and injurious amount of specialised labour is exacted from the workers by the ordinary industrial conditions of to-day in nearly all industrial processes.

§ 5. The first plea for a shorter day is one which our analysis has made self-evident.

It will greatly reduce the human cost of production in most processes. For, as we recognise, the strain of muscular and nervous fatigue, both conscious and unconscious, gathers force and grows with great rapidity during the later hours of the work-day. Though the curve representing the variations of the human cost will of course differ in every sort of work and for different workers, their age, sex, strength, health and other personal conditions affecting it, the last hours of each shift will contain a disproportionate amount of fatigue, pain and other 'costs,' while the quality and quantity of the work done in these last hours will be inferior.

If out of any stock of material goods, we were able to separate the product of the last hour's work from that of the earlier hours in the work-day, and could subject it to the analysis of human cost and utility, which we have endeavoured to apply to the general income, what should we find? This last increment of the product would contain a heavier burden of human cost of production than any of the earlier increments. Again, turning to the consumption side, what should we find? This last increment must be considered as furnishing the smallest amount of human utility in its consumption. Indeed, if we are right in holding that a considerable fraction of each supply, even of what are commonly classed as material necessities of life, such as foods, clothings, etc., is wastefully or even detrimentally consumed by the well-to-do, there is reason to hold that this last increment of product, involving the largest human cost in its

production, contains no utility but some amount of human disutility in its consumption.

If this analysis be true, the last hour's work may be doubly wasteful from the standpoint of human welfare.

Of the £2,000,000,000 which constitutes our income it may very likely be the case that £200,000,000 of it represents wealth, which, from the human standpoint, is 'illth,' alike in the mode of its production and of its consumption. If it had not been produced at all, the nation might have been far better off, for by abstaining from the production of this sham wealth, it would have produced a substantial amount of leisure.

It is of course true that the particular groups of producers, who by their last hour's labour made these goods, may not have been losers by doing so; their heavy toil may have been compensated by the enhanced wage which they could not otherwise have got, and the loss of which would have injured their standard of life. It is, indeed, the operation of competition upon wages that actually forces into existence this sham-wealth. Drawn out of over-wrought workers by the unequal conditions of the wage-bargain, it passes into wasteful consumption by the back-stroke of the same law of distribution, which pays it away as 'surplus' or 'unearned' wealth.

It is only the clear consideration of its production and consumption from the social standpoint that exhibits the waste of the last hour's product.

But from the standpoint of the individual worker the economy of a shorter work-day has a double significance. We have seen that it more than proportionately diminishes his personal cost, by cancelling the last and most costly portion of his work-day. But it also increases the human utility which he can get out of his wages. A day of exhausting toil entails the expenditure of a large portion of his wage in mere replacement of physical wear and tear, or incites to expenditure on physical excesses, while the leisure hours are hours of idleness and torpor. A reduction of the work-day will, by the larger leisure and spare energy it secures, reduce the expenditure upon mere wear and tear, and increase the expenditure upon the higher and more varied strata of the standard of comfort. More leisure will in general so alter

the mode of living as to enable the worker to get more and better utility out of the expenditure of his wages. Take an extreme case. A man who toils all day long at some exhausting work, and goes home at night too tired for anything but food and sleep, so as to enable him to continue the same round to-morrow, though he may earn good wages from this toil, can get little out of them. If he were induced to work less and leave himself some time and energy for relaxation and enjoyment, he would get a larger utility out of less money income.

The matter, however, does not need labouring. It is evident that many modes of consumption depend in part, for the pleasure and gain they yield, upon the amount of time given to the consuming processes. It would be mere foolishness for a tired worker to spend money upon improving books which he had not the time and energy to digest. Shorten his hours, leave him more energy, such expenditure may be extremely profitable. Even the enjoyment and good of his meals will be increased, if he has more time and energy for wholesome processes of digestion and for the exercise which facilitates digestion. And what is true of his food will hold also of most other items in his standard of consumption. No consumption is purely passive: to get the best utility or enjoyment out of any sort of wealth, time and energy are requisite. The greater part of a workman's income goes to the upkeep of his home and family. Does the normal work-day in our strenuous age permit the bread-winner to get the full enjoyment out of home and family? He belongs perhaps to a club or a coöperative society. Can he make the most of these opportunities of education and of comradeship, if his daily toil leaves him little margin of vitality? Much of the growing public expenditure which the modern State or City lays out upon the amenities of social life, the apparatus of libraries, museums, parks, music and recreation, is wasted because industry has trenched too much upon humanity.

§ 6. More leisure means an increased fund of utility or welfare got out of the income at the disposal of each worker.

This introduces us to the fuller economy of leisure regarded as the opportunity of opportunities—the condition of all effective social reconstruction and progress.

Consider it first in relation to industrial welfare. We have seen how society enforces its claims upon the worker by division of labour and specialisation of functions. This specialisation is usually justified by the variety of consumption which it yields. But will not this more complex and refined consumption in large part be wasted or perverted to base ends, if the producer becomes ever narrower in his productive function?

The Organic Law presses here insistently. It would be going too far, doubtless, to assert that he who can produce one thing can only consume one thing. But everyone familiar with the finer arts of Consumption will admit that a consumer who is utterly unskilled in the production of these goods cannot extract from their consumption the full enjoyment or utility which they contain. A true connoisseur of pictures must, in training and in study, be a good deal of an artist: the exquisite *gourmet* must be something of a cook.

In other words, our industrial civilisation offers a dangerous paradox, if it merely presents man exposed to two opposed forces, tending on the one hand to greater narrowness of production, on the other, to greater width and complexity of consumption. To solve this paradox is the first service of the large new fund of leisure which, for the first time in history, the new economics of industry render available not for a little class but for whole peoples.

The first use of leisure, then, is that it supplies a counterpoise to specialisation by the opportunity it gives for the exercise of the neglected faculties, the cultivation of neglected tastes. As the specialisation grows closer, this urgency increases. More leisure is required for the routine worker to keep him human.

In the first place, it must afford him relaxation or recreation by occupations in which the spontaneity, the liberty, the elements of novelty, increasingly precluded from his work-day, shall find expression. It must liberate him from automatism, and afford him opportunity for the creative and interesting work required to preserve in him humanity.

A six-hours day would mean that thousands of men, who at present leave the factory or furnace, the office or the shop, in a state of physical and mental lassitude, would take a turn at

gardening, or home carpentry, would read some serious and stimulating book, or take part in some invigorating game.

Thus each man would not merely get more out of each item of his economic consumption, but he would add to the net sum of his humanity, and incidentally of his economic utility, by cultivating those neglected faculties of production which yield him a positive fund of interest and human benefit.

§ 7. So far I have set forth the economy of leisure from the standpoint of physical and moral health: the order and harmony of human powers. This, however, is in the main a statical economy. Now, Order is chiefly valuable as the means of Progress, Health as the means of Growth. The dynamic economy of Progress demands leisure even more insistently.

Everyone will formally admit that Education is impossible without leisure. It is often pointed out that the Greek word which has been converted into our word 'School' means Leisure. One might, therefore, suppose that the utmost care would be taken to get the fullest use out of the leisure which child-life affords, and to ensure that throughout life there should remain a sufficient supply of this raw material of progress—the surplus energy beyond the bare needs of existence needed for organic growth.

The prodigal waste of this sacred store of leisure for child-life in the processes of our Elementary Education is only too familiar to all of us. Mr. Stephen Reynolds¹ hardly overstates the case when he says, 'It gives to the children about three years' worth of second-rate education in exchange for eight or nine years of their life.'²

I believe that the trained educationalist of the next generation, examining the expensive education given even in the best-equipped of our secondary schools and our universities, in the light of a more rational conception of human progress, will find

¹ (Times, 23 Dec. 1912.)

² The best that can be said for this education has recently been said by Mr. George Peel, who writes of London children (*The Future of England*, p. 96):

'They spend 28 hours a week continuously during nine years under fairly satisfactory conditions of air, warmth and light, engaged in wholesome and stimulating pursuits. Considering what their homes often are, this itself must be reckoned an immense benefit.'

at least as large a waste of opportunity in these seats of learning as in our elementary schools. Not until educational standards and methods are better adjusted to true conditions of the vital progress of individuals and of societies, will the chief significance of leisure be realised.

§ 8. But the value of leisure is by no means exhausted by these considerations. The finest fruits of human life come not by observation. To lay out all our spare time and energy to the very best advantage by a scrupulous seizure of opportunities is in reality a false economy. Industrialism has undoubtedly done much both to discipline and to educate the powers of man. But it has preached too arrogantly the gospel of economy and industry. It is not good for any man to account for his time either to himself or to another, with too great exactitude, or to seek to make a mosaic of his days. The Smilesian philosophy of thrift and industry imparts more calculation into life than is good for man. We should not be so terribly afraid of idleness. Dr. Watts held that 'Satan finds some mischief still for idle hands to do.' But far saner is Wordsworth's view, 'that we can feed this mind of ours in a wise passiveness,' and Thoreau's demand for a 'broad margin of life.'

We are not yet sufficiently advanced in psychology to know much of the processes within the mind by which novel thoughts and feelings seem to enter of their own accord, starting new impulses to action, or by which the unchecked imagination works along some rapid line of intuition. But that such seasons of vacancy and reverie are essential to many of the finest processes of the intellect and heart, is indisputable. To deny this to any man is to deprive him of a part of his rightful heritage of human opportunity. The inventor, the poet, the artist, are readily allowed such free disposal of time. Everyone allows that genius must have ample periods of incubation. But the implication that common men ought to have their faces kept to the grindstone is quite false. Everybody wants leisure for his soul to move about in and to grow, not by some closely prescribed plan of education, but by free experimentation of its secret powers. A very slender harvest of happy thoughts and feelings will justify much apparent idleness.

In the narrower investigation of methods of industry which we essayed, we realised the critical part played by leisure in the art of invention. The lack of leisure for the great majority of workers is assuredly a waste of inventive power. We think our society prolific in inventions, especially in the age we are living in, but it is likely that the pace of progress through industrial inventions would be greatly quickened if the proper play-time of the mind were not denied to the great majority of men and women.

Biologists and psychologists have made many interesting enquiries into the motives that prompt animals and human beings to play. The forms of play, the rhythm or patterns into which the organic cooperations of muscular and nervous tensions and discharges cast themselves, are found to have some direct relation to the serious pursuits of adult life, the protection against enemies, the pursuit of prey and other food, courtship, mating and the care of the young, and the corporate movements necessary for the protection of the horde or tribe. So interpreted, play is an instinctive education for life. Nature is full of indirectness, and a great deal of this play is not closely imitative of any particular sort of useful activity but is directed to general fitness. This applies particularly to the higher animals who are less exclusively directed by separate particular instincts and are liable to have to meet novel and irregular emergencies that call for general adaptability of body and of mind. The play of higher animals and especially of human young will thus run largely into forms in which the intellectual and emotional powers will have large scope, where spontaneous variation and free imagination will express themselves, and where the more or less routine rhythms of the primitive dance or song or mock fight will pass into higher forms of individual cunning and competitive exploit, having as their main biological and social 'meaning' the practice of an efficient mental and emotional equipment. Play thus considered is an experimentation of vital powers. Its utility for child-life is commonly admitted. In fact, there is a grave danger lest the spontaneity and instinctive direction which nature has implanted should be damaged by the attempts of education-alists to force the vital utility of play by organising it into

'set games.' Though we need not rudely rule out reasonable regulation from this, as from any other department of life, it would be well to remember that play has powerful directive instincts behind it in child-life which adult notions of economy may gravely misconceive and injure by over-regulation. Hasty endeavours to displace instinct by reason in child-life are likely to prove costly to human welfare in the long run. The spontaneous joy of those activities of childhood that seem most 'wasteful' is probably a far better index to welfare than any pedagogic calculations.

But because the human utility of play is great for children, it does not follow that it is small for men and women. Even the physiological and much more the psychological utility of play lasts through life, though doubtless in diminishing value. For adult workers mere repose never exhausts the use of leisure. The biological or the social utility of his play may be much smaller than in the case of the young. But it will remain considerable. Nor is this utility chiefly expressed in the relation between play and invention. The chief justification for leisure does not consist in its contribution to the arts of industry but rather in raising the banner of revolt against the tyranny of industry over human life.

§ 9. We have grown so accustomed to regard business as the absorbing occupation of man, that which necessarily and rightly claims the major part of his waking hours, that a society based on any other scale of values seems inconceivable. Though history has made us familiar with civilisations, such as those of Athens and of Rome, where a large body of free citizens regarded politics, art, literature and physical recreations as far more important occupations, we know that such civilisations rested on a basis of slave labour. We do not seem to realise that for the first time in history two conditions are substantially attained which make it technically possible for a whole people to throw off the dominion of toil. Machinery and Democracy are these two conditions. If they can be brought into effective coördination, so that the full economics of machine production can be rendered available for the people as a whole, the domination of Industry over the lives, the

thoughts, and the hearts of men, can be overthrown. This is the great problem of social-economic reconstruction, to make industry the servant of all men, not the servant of the few, the master of the many. Its solution demands, of course, that after the wholesome organic needs are satisfied, the stimulation of new material wants shall be kept in check. For if every class continues constantly to develop new complicated demands, which strain the sinews of industry even under a socially-ordered machine-economy, taking the whole of its increased control of Nature in new demands upon Nature for economic satisfaction, the total burden of Industry on Man is nowise lightened. If we are to secure adequate leisure for all men, and so to displace the tyranny of the business life by the due assertion of other higher and more varied types of life, we must manage to check the lust of competitive materialism which Industrialism has implanted in our hearts.

I am aware how difficult it is to translate these handsome aspirations into practical achievement. To urge the working-classes of this country, or even considerable sections of the middle-classes engaged in the trades and professions, to sacrifice some immediately attainable rise in their material and intellectual standard of comfort, in order thereby to purchase more leisure, will be taken to indicate a blank ignorance of the actual conditions of their lives. I shall be reminded that recent statistics of wages in this country show that about one-third of our working-class families are living upon precarious weekly incomes amounting to less than 35s. a week, and that this computation does not take into account a large body of the population living upon casual earnings indefinitely lower than this sum. Now Mr. Rowntree and other searchers into working-class expenditure have shown that 35s. will hardly purchase for an ordinary family in any English town a sufficiency of food, clothing, housing, fuel and other requisites to maintain its members in full physical efficiency. It will seem idle to contend that working-people in this case would do well to prefer a shortening of their working day, however long it be, to an increase of their wages. None of the considerations I have urged relating to the better utilisation of their consumption will be held to justify so obviously wasteful

a policy. These workers simply cannot afford to buy more leisure at so high a price. They dare not sacrifice any fraction of their current wages to procure a reduction of hours from eight hours to six, even if the conditions of their trade otherwise admitted such a change; and if increasing prosperity in their trade presents them with the option of obtaining higher wages or shorter hours, their pressing demands for better food and housing will rightly compel them to choose the former of the two alternatives.

Nor is this reasoning refuted by dwelling upon the undeniable facts, that most standards of working-class comfort contain elements of conventional consumption which might be cut out with positive advantage, and that, apart from this, a more intelligent housekeeping would enable most of them to do much better with their actual incomes than they do. For when a due allowance has been made for such errors or extravagance, the ordinary labourer's wage in town and in country still remains below the margin of family efficiency. Of course, in almost every occupation there will be a considerable number of workers who, having no family dependent on them, will have some means at their disposal for comforts, luxuries, saving or leisure. But the normal standard wage for unskilled or low-skilled labour in this country does not appear to have attained a height at which the purchase of a shorter working day is sound economy. We must always bear in mind, besides, that the existence in a trade of even a considerable minority of workers who could afford to take in increased leisure what they might take in enhanced wages, would not make this step practicable or desirable. For most trades are now so organised that a common standard working day is even more essential than a uniform rate of wages.

These facts enable us to realise why it is that so much elasticity or ambiguity attends the actual labour movement for a shorter working day. The demand is seldom framed in such a way as to preclude the common use of over-time, though such a use of course defeats the aim for leisure, converting it into an aim for higher wages, the time and a half rate usually paid for over-time.

But, though this open or secret competition between more leisure and more wages continues to take place in trades where

general conditions of labour are improving, the relative strength of the claim for leisure is advancing. There comes a point in the improved conditions of each working-class when the demand for liberty and ease and recreation begins to assert itself with so much insistence that it outweighs some part of the chronic demand for higher wages. Though workers are usually reluctant to admit the economic necessity of making a wage-sacrifice in order to purchase leisure, and will hardly ever claim a shorter day, if they know it to involve an actual fall of wages, they will sometimes risk this fall, and more often they will forego a portion of a contemplated rise of wage, so as to get a shorter day. The strength and effectiveness of this demand for leisure in comparison with wages must, of course, vary with the actual standard of comfort that obtains, the onerousness or irksomeness of the work, the age, sex and intelligence of the workers, and the variety and sorts of opportunities which increased leisure will place at their disposal. In the ordinary English feudal village, or even in the small country town, leisure commonly means torpor qualified by the public-house. The price of such leisure, in terms of sacrifice of wage, would be very low, for the utility in the sensational enjoyment of the leisure would be slight as compared with the substantial addition to the material standard of family comfort which even a shilling would afford. On the other hand, to the better-paid mechanic, compositor, or skilled factory worker, where the family wage was relatively high, and where organised city life presented many opportunities for the use and enjoyment of leisure, it might seem well worth while to pay something in cash for the advantage of a longer evening.

§ 10. This problem, of course, is merely one illustration of the complicated issues which arise in any orderly study of the human economics of class and individual standards of consumption. Even such a merely cursory glance at this delicate organic problem will serve to expose the fatuity of so much of the crude dogmatic criticism lavished upon working-class economy by well-to-do reformers who have not sufficient imagination or discretion to abstain from applying the standards of valuation appropriate to an income of £1,000 a year to a family living upon £60 a year. The exact income-point where a West Ham worker

can afford to observe the legal requirements against overcrowding by hiring another room, where he can join a Club with a reasonable chance of keeping up the subscriptions, where he can afford to keep the boys or girls at school beyond the legal age-limit, such questions cannot be settled by general maxims as to the duty of thrift or the advantages of education, or even the dangers of bad sanitation. It must be remembered that even in this highly-civilised and Christian land there are still some millions of people who cannot afford to set aside anything for a rainy day, or to let their children enjoy the education which the State freely provides, or even to obey some of the fundamental laws of health. As the family wage rises beyond a bare minimum of current subsistence, a point will emerge where each of these and many other sound practices becomes economically feasible: the particular income-point, of course, will differ with each family according to its composition, its needs, and the opportunities of meeting them.

What applies so evidently to the narrow incomes of the wage-earners is, of course, equally applicable to the higher incomes of other classes. The well-to-do professional man recognises that an annual expenditure of five or even ten per cent of his income on holidays may be a sound economy, just as he calculates that he is doing better for his son by spending £1,000 on his professional training than by putting him to business at sixteen with the same sum for capital. Not only is it impossible to generalise for a whole people, or for all families in a given trade or of a given income, but there will be no two cases where a rising income ought to be laid out precisely in the same way. This is of course nothing else than saying that, as no two persons, or families, are precisely alike in physical and moral make-up, in tastes, needs, opportunities, their expenditure cannot rightly be the same.

Though this belongs to the most obvious of common-places, none is more habitually ignored. And that neglect is largely due to the fact that the platitudinarian moralist has always been allowed to have a free run in the region of commentary on expenditure.

Eulogia of thrift and industry have been as indiscriminate

and as unprofitable as diatribes against luxury and idleness. What is needed is a flow of orderly investigation into the real needs and capacities of the individuals and groups who constitute industrial society, not confined to the hard facts which can be tabulated and plotted in curves but taking count of those softer and more plastic facts which a closer study of human life will always show as the main determinants of any art of conduct.

The place of leisure in the organic standard of a group or class or nation will be one of the most delicate problems in such a study. Its delicacy for the individual economy may, indeed, be deduced from the expression which we used at the outset of this treatment, in describing it as 'the opportunity of opportunities.' In other words, its human utility to any man, and, therefore, its importance, relative to his wages or any other good he gets from them, will depend upon the nature of all the opportunities it opens up, and that in its turn depends upon the entire sum of those conditions which we name his Nature and his Environment.

The progressive achievement of this economy of leisure is closely linked with a gradual reorganisation of industry so as to eliminate the large waste of time and energy which present productive methods involve. With science and humanity co-operating in the art of social organisation it ought to be possible to effect such economies as would place all Englishmen in private possession of the greater part of their waking day for their own purposes in life. It requires, however, a genuine faith in the organic progress of Human Nature to urge with confidence the fuller measure of such a reform. We need at least to assume that the normal tendency will be towards the use, not the abuse, of more leisure, as of higher wages. That some waste will be incurred in learning to use leisure, as also in building up each stage in a rising standard of expenditure, is of course inevitable. Much might be said about the conditions which facilitate the assimilation both of leisure and of wages to nourish a higher human life. Race, climate, social traditions and surroundings, the nature of the work, age, sex and, indeed, many other conditions, must help to determine how a given shortening of hours, or enhancement of wages, will affect the standard of life. Some crude distinc-

tions of great significance have been observed. The Bantu and most other Africans, new to processes of wage-labour and to the needs of civilised life, will take the whole of a sudden rise of wages in increased leisure, but that leisure will be spent almost wholly in idleness. Pushful German traders in tropical countries commonly complain of the '*verdamnte Bedürfnislosigkeit*' (accursed wantlessness) of the inhabitants. This low conservative standard of living impedes economic processes of exchange. It also precludes the fruitful use of leisure, the satisfaction of the non-economic needs. Though there is no reason to hold that any race or type of man is unprogressive, in the sense that his mind is impervious to new wants and is incapable of inciting him to new efforts for their satisfaction, the extent and pace of such progress vary greatly with the economic environment and with the degree of conscious culture hitherto attained. The stimuli of economic needs and of non-economic needs will normally proceed together, and in the masses of a working population will manifest themselves in a simultaneous demand for higher wages and more leisure. But as wages reach a tolerably high standard of economic comfort, it might be expected that the relatively stronger pressure of the non-economic needs would give increasing emphasis to the demand for a shorter and easier working day. This, indeed, will seem to accord with the general claim which socialists as well as individualists make for progressive industrialism, that it shall make larger provision for personal liberty and self-development. As specialised and regimented industry represents the direct economic service each must render to society, the demands of expanding personality are held to require that an increasing proportion of each man's time and energy shall be put at his disposal.

§ 11. No abstract considerations indeed, can be adduced to support an indefinite reduction of the work-day. As a high level of civilisation is attained in any community, the proportion of energy devoted to material, as compared with non-material commodities and services, will doubtless be reduced. But that does not necessarily imply a corresponding reduction of economic time and activity. For among economic goods themselves, those which are wholly or mainly non-material will

form an increasing proportion of the whole. A community like that of Great Britain, with a population declining in its growth, will tend to take a continually increasing share of its real income in the shape of intellectual, moral, æsthetic, recreative, and other non-material services. These will absorb an ever-growing share of the productive energy of the people. This demand for the satisfaction of higher economic needs will be likely to put a check upon the tendency towards an illimitable reduction of the work-day. For many of these higher non-material goods do not admit the application of those economies of capitalist production available in the making of material goods. Take one example, that of education. Here is a service which will probably absorb a continually increasing percentage of the total time and energy devoted to economic services. The same is probably true of hygienic services. Though portions of these and other activities may pass from the economic into the non-economic sphere, being undertaken by individuals as private occupations, for their leisure, as public services they will certainly furnish employment to an increasing number of employees.

Thus the claims of a growing progressive social organisation will impose some necessary limits upon the demands of the individual for larger liberty and leisure.

There is, however, no final conflict between the claims of personal liberty and the social order. Even though the process of readjustment between the claims of industry and leisure should incline generally in favour of more leisure, with the prime purpose of nourishing more fully the private personality and affording larger scope for home life and recreation, society is not thereby the loser. For some of the finest and most profitable uses of leisure will consist of the voluntary rendering of social services of a non-economic order. I allude in particular to a fuller participation in the active functions of citizenship, a more intelligent interest in local and national politics, in local administration and in the numerous forms of voluntary association which are generally social in the services they render. More leisure is a prime essential of democratic government. There can be no really operative system of popular self-government so long as the bulk of the people do not possess the spare time

and energy to equip themselves for effective participation in politics and to take a regular part in deliberative and administrative work. This is equally applicable to other modes of corporate activity, the life of the churches, friendly societies, trade unions, coöperative societies, clubs, musical and educational associations, which go to make up the social life and institutions of a country. Leisure, demanded primarily in the interests of the individual for his personal enjoyment, will thus yield rich nutriment to the organic life of society, because the individual will find himself drawn by the social needs and desires embedded in his personality to devote portions of his leisure to social activities which contribute to the commonwealth as surely as do the economic tasks imposed upon him in his daily industry.

CHAPTER XV

THE NATION AND THE WORLD

§ 1. We have examined the chief defects in the structure of a business and a trade, regarded in the light of instruments of human welfare, and we have considered some of the remedies, applied sometimes for purposes of distinctively industrial economy, sometimes as devices of social therapeutics.

There remains, however, one other mode of economic antagonism deserving of consideration. Until modern times a nation was to all intents and purposes not only a political but an economic area, in the sense that almost all trade and other economic relations were confined within the national limit. The small dimensions of foreign, as compared with domestic trade, and the nature of that trade, confined to articles not produced at home, had little tendency to generate a feeling of international rivalry. Foreign trade was almost wholly complementary and not competitive. With the modern changes, which have altered this condition and made nations appear to be hostile competitors in world commerce, we are all familiar. The development of capitalist production to a common level and along similar lines in a number of Western nations, the tendency towards an increase of output of manufactured goods at a price exceeding the demands of the existing markets, the consequent invasion of the markets of each industrial country by the goods of other countries, and the growing competition of the groups of traders in each nation to secure and develop new markets in the backward countries, with the assistance of the physical and military forces of their respective governments, have imposed upon the popular mind a powerful impression of economic opposition between nations. No falser and more disastrous delusion prevails in our time. The only facts which seem to give support to it are the Tariffs, Commercial Treaties and the occasional uses of political pressure and military force by States for the benefit of

financiers, investors, traders or settlers belonging to their nationality. This intervention of Governments for the supposed advantage of their citizens has had the unfortunate effect of presenting nations in the wholly false position of rival business firms. Groups of private manufacturers, traders and financiers, using their government to secure their private profitable ends, have thus produced grave conflicts of international policy. The worst instrument of this antagonism, because the most obvious and the most vexatious, is the protective Tariff, and the most singular proof of its derationalising efficacy is found in the conduct of our recent fiscal controversy. The fiercest fight in all that controversy has raged round the relative size, growth and profitable character of the foreign trade of Great Britain, Germany, America, etc. These States are actually treated, not merely by Protectionists but by many Free Traders, as if they were great trading firms, engaged in struggling against one another for the exclusive possession of some limited economic territory, the success of one being attended by a loss to the others. Now, Great Britain, Germany and America are not economic entities at all; they are not engaged in world commerce, either as competitors or as coöperators; the respective advances or declines made by certain groups of merchants within their confines in overseas trade have no net national significance at all. Finally, overseas trade, by itself, furnishes no index of the collective prosperity of each nation.

§ 2. The whole presentation of the case under the head of Nations is irrelevant and deceptive, conveying, as it is designed to do, the false suggestion that Englishmen, grouped together as a people, are somehow competing with Germans grouped together as another nation, and Americans as a third nation. Now no such collective competition exists at all. So far as trade involves competition, that competition takes place, not between nations, but between trading firms, and it is much keener and more persistent between trading firms belonging to the same nation than between those belonging to different nations. Birmingham or Sheffield firms compete with one another for machinery and metal contracts far more fiercely than they compete with Germans or Americans in the same trade, and so it is in every

other industry. The production of import and export figures, and of balances of trade, under national headings, is a mischievous pandering to the most dangerous delusion of the age. It has done more than anything else to hide the great and beneficent truth, that the harmony and solidarity of economic interests among mankind have at last definitely transcended national limits, and are rapidly binding members of different nations in an ever-growing network of coöperation. Within the last generation a more solid and abiding foundation for this coöperation than ordinary exchange of goods has been laid in the shape of international finance. Though certain dangerous abuses have attended its beginnings, this coöperation of the citizens of various countries in business enterprises in all parts of the world is the most potent of forces making for peace and progress. More rapidly than is commonly conceived, it is bringing into existence a single economic world-state with an order and a government which are hardly the less authoritative because, as yet, they possess a slender political support. That economic world-state consists of all that huge area of industrially developed countries in regular and steady intercourse, linked to one another by systems of railroads and steamship routes, by postal and telegraphic services, administered by common arrangements, by regular commerce, common markets and reliable modes of monetary payment, and by partnerships of capital and labour in common business transactions.

§ 3. The actuality of this world-system has preceded its conscious realisation. But the growing fact is educating the idea and the accompanying sentiment in the minds of the more enlightened members of all civilised nations. We hear more of internationalism from the side of labour. But, in point of fact, the corporate unity of labour lags far behind that of capital. For the mobility of capital is much greater, and its distribution is far better organised. But, as the financial machinery for the collection and distribution of industrial power over the whole economic world is further perfected and unified, it will be attended by a loosening of those local and national bonds which have hitherto limited the free movement of labour. As the centre of gravity in the economic system shifts from land, which

is immovable, to money, the most mobile of economic factors, so the old local attachment which kept most labour fastened to some small plot of the earth, its native village, will yield place to liberty of movement accommodated to the needs and opportunities of modern profitable business. Within the limits of each country the increased mobility has long been evident: it has helped to break up parochialism and provincialism of ideas and feelings, and to evolve a stronger sense of national unity. But there is to be no halting at the limits of the nation. Already large forces of international labour exist. Not merely do vast numbers of workers migrate with increased ease from Belgium into France, from Russia into the United States, from Germany into South America, for settlement in these countries, but large bodies of wage-earners are being organised as a cosmopolitan labour force following the currents of industrial development about the world. So far as unskilled labour is concerned, large tracts of China, India and the Straits Settlements, form a recruiting ground in Asia; while Italy and Austro-Hungary furnish a large European contingent. But not less significant are the higher ranks of cosmopolitan labour, the British and American managers, overseers and workmen in the engineering, railroad, electrical and mining industries, who to-day are moving so freely over the newly developing countries of three continents, placing their business and technical ability at the service of the economic world. The new movements in the economic development of Asia and of South America will enormously accelerate this free flow of business ability and technical skill from the more advanced Western nations over the relatively backward countries, and will also bring into closer coöperation at a larger number of points the capital and management of Western peoples.

My object in referring to these concrete economic movements of our time is to illustrate the powerful tendencies which are counteracting the old false realisation of industry in terms of human competition and antagonism, and are making for a conscious recognition of its coöperative and harmonious character.

CHAPTER XVI.

SOCIAL HARMONY IN ECONOMIC LIFE

§ 1. A brief summary of the actual tendencies towards harmony and discord at present visible in the economic world may be conveniently presented here.

We see among the fundamental industries the transformation of the structure of the single business; large numbers of little rivulets of savings from innumerable separate personal sources merging to form a single body of effective capital; large numbers of workers closely welded into a single body of effective labour-power; both operating in normal harmony under the direction of a common central management, and engaged in the continuous work of turning out a product, the price of which forms the common income alike for capitalists and workers. So far as that portion of the dividend is concerned which forms the economically necessary costs of these masses of capital and labour, there exists a harmony of interests between the two groups of claimants, which is more clearly recognised with every improvement of the general standard of intelligence and information. In most businesses that common area of interest covers by far the larger part of the business dividend. Where a surplus emerges in excess of these economic costs, an initial discord arises between the claims of the capital and labour. But this discord may be resolved in two ways, in each of which important experiments, attended by a growing measure of success, are being carried on. Large patches of the area of discord are being reclaimed to order by the modern State, whose policy is more and more directed to absorbing by taxation, and applying to the use of the community, great shares of these business surpluses, as they emerge in incomes and inherited properties. As regards the surplus which is not so absorbed, the grouped forces of capital and labour within the business are constantly engaged in seeking to discover pacific and equitable modes of division which shall reconcile, or

at least mitigate, the remaining opposition. Though this remains at present the sharpest field of conflict, pacific forces are making more gain than perhaps appears upon the surface. Some of those industries, where such discords have been most rife and most wasteful, have been taken over by the State or the Municipality. In these cases such quarrels as may still arise in connection with the claims of labour admit of settlement by other means than economic force. In others, the State intervenes on behalf of public order by assisting to promote processes of arbitration or conciliation. In others, again, the organisation of the forces of capital on the one hand, labour on the other, over the whole range of businesses comprising a national trade, has tended to make actual conflicts rarer, and presents a machinery capable of application to pacific settlements. Grave as are the defects in the working of this machinery of Joint Boards, Sliding Scales, Conciliation and the like, and terrible as are the injuries these defects cause, they ought not to blind us to a recognition of the fact that the number of actual conflicts between capital and labour is constantly diminishing.

§ 2. This truth is better realised when we turn from the structure of the business to that of the trade or market. There, though keen and even cut-throat competition still survives, the tendency is more and more, especially in the great staple industries where large aggregates of capital and labour are employed, towards coöperation, combination and trade agreements. If, for the moment, we ignore the dangers which such combinations often threaten to consumers, and regard them from the standpoint of trade structure, we cannot fail to recognise the enormous advance they represent in the cause of industrial harmony. For whatever the degree of unity attained by such a Trust, Cartel, Conference, Trade Agreement, Federation, it means *pro tanto* a saving of the energy of capital and labour formerly expended upon conflict, and a concentration of the thoughts and purposes of business men upon the best performance of the useful functions of production which constitute the social value of their trade. So long as a trade remains in a distinctively competitive condition, an enormous part of the actual energy is consumed not in production but in warfare. The thoughts and wills of the con-

trollers of the several businesses are deflected from the economical fulfilment of their social function to conscious rivalry. Neither the capital nor the labour in each several business enjoys a reasonable measure of security; and not only the profits but the wages of each firm are jeopardised by the success of a stronger competing firm. The growing displacement of this condition of a trade by the principle and practice of combination is perhaps the most conspicuous movement towards industrial peace. I am aware that, in itself, this concentration and combination of businesses within a trade afford no sure settlement for the differences between capital and labour. They may even aggravate those differences in several ways. For, in the first place, such combinations are expressly and chiefly designed to produce a larger quantity of surplus profits, thus stimulating conflict by offering a larger object of attack to labour. In the second place, such combinations, if at all complete, may prove more clearly than in any other way the superiority of organised capital over organised labour in the determination of wages and conditions of labour. Finally, private ownership of natural resources, producing for its owners economic rent, remains an unsolved antagonism. Though the extent to which the 'surplus', which monopolistic, protected or otherwise well-placed businesses obtain, as open or concealed 'rent', is not capable of exact estimate, many, if not most, profitable businesses derive some of their surplus from the possession or control of natural resources. Such natural resources are to all intents and purposes capital, so far as relates to issues of conflict between capital and labour. The amount and possibly the proportion of surplus (taking the whole industrial world into consideration) which is plain or disguised rent, is probably upon the increase. Even in Great Britain, though aggregate rents do not keep pace with profits and other incomes derived from business capital, they probably form an increasing proportion of that income which, according to our definition, ranks as 'unproductive surplus.' Though these rents, like other 'unproductive surplus,' could be advantageously diverted into wages on the one hand, public revenue upon the other, they are kept on the side of capital by the full force of combination.

Thus the labour in any trade may be confronted by a larger body of wealth which it would like to secure for higher wages, while at the same time it finds itself less able to achieve this object.

§ 3. Equally sharp may be the antagonism of interests set up between such a combine and the general body of consumers, by means of the control of prices which the former possesses. For the large surplus, which we see to be an object of desire to the workers in a combination or trust, represents to the consumer an excess of prices. So it comes to pass that the consumer, unable to combine in his economic capacity, as the workers do in their trade unions, combines as citizen and calls upon the Government to safeguard him against monopolies. His first instinctive demand is, that such combinations shall be declared illegal bodies, acting in restraint of trade, and broken up. But nothing proves more plainly the inherent strength of the cohesive unifying tendencies than the completeness of the failure to achieve this object. When business men desire to combine, it is impossible to force them to compete. The alternatives are, either to leave the consuming public to the tender mercies of a monopoly, which, from mere considerations of profit, may not be able to raise its prices beyond a certain limit, or else to impose legal regulations, or, finally, to buy out the business, transferring it from a private into a public monopoly.

Wherever the modern State is driven to confront this problem, it is compelled, in proportion as public opinion is articulate and politically organised, to fasten an increasing measure of public control upon such powerful combinations, and to take over into the sphere of State enterprises those which cannot effectively be controlled. In such ways does modern society seek to heal the new discords generated by the very processes employed by the several businesses and trades in their search after an internal harmony.

§ 4. An interesting testimony to this demand for increasing public control over the economic system is furnished by the changed attitude of thoughtful economists towards capitalism. Whereas before the war the growth of combinations in displacing competition was regarded by most economists as exceptional and temporary, calling for a watchfulness and an occasional

intervention of the State in the case of dangerous abuses, the financial, commercial and industrial disturbances of the post-war period, and in particular the world-wide persistent depression of the period from 1929, are producing rapid changes of thought in academic circles, in the public services, in banking and finance, and among reflecting business men in this and other countries. Though some of these economists still cleave to *laissez-faire* and free private enterprise as rightful regulators of the economic system, the general drift is towards a recognition of the need of social planning, some conscious organisation of the productive powers, so as to eliminate the visible wastes, and to enable the consumer to realise, in higher and securer standards of living, or in increased leisure, the enormous advances in productivity. Different schools of thought take different lines of movement and different paces. But the recent visible failure of capitalism to work, in the collapse of the private profit-making motive, has been a stronger educative influence towards some sort of socialism than all the revolutionary theorising of the past century. While few among our expert economists can be regarded as full-blooded Socialists or Communists, insistent upon a rapid wholesale transformation of our economic system, most of them are reluctant converts to the need of some considerable measure of conscious planning. They differ widely as to the extent and method of this planning and as to the nature and personnel of its control. Those who believe that capitalism can be repaired and put once more into efficient working order constitute the conservative wing of the reform movement. They would confine the planning to measures for dealing with the existing depression, chiefly financial expedients for stimulating production, removing international trade barriers and relieving unemployment. But there is an increasing disposition to demand a more lasting process of planning among economists and industrialists who are alive to the graver and more permanent implications of the rationalisation movement and the acceleration of productivity proceeding from the new economics of technique and power. Whereas it seemed possible in the slower evolution of modern capitalism for gradually increasing

supplies of new capital and labour in a few advanced countries to find employment in developing new industries at home or in the more backward countries, the pace of advance in the industrial arts made among all white and some coloured populations has put out of operation what seemed to be a natural adjustment. Though some economists still hold that all the apparent tendencies to over-production and gluts are due to failures to apply capital in proper proportions as between different groups of industries or different areas of industrial development, the predominant opinion now recognises a wider maladjustment, viz., between the productive activities assigned to making consumptive goods and those assigned to making new capital goods. The formerly accepted conviction that all goods which could be produced would be produced, and would then pass by a natural necessity into the hands of consumers by the exercise of purchasing power, is no longer tenable in the face of the visible waste of most kinds of productive resources in all countries. Though economists assign immediate responsibility for much of this waste to financial disturbances and the uncertainty of price-levels, many now recognise that, even were stability of prices on a profitable level attained by some strong international arrangement, and tariffs and exchange barriers let down, the "recovery" of industry and commerce thus made possible would not be a lasting cure, a reliable economic hygiene for the future.

For, if it be true that scientific technique and management are producing an acceleration of output per man in nearly all departments of agriculture, mining, manufacture, transport in an increasing number of countries, so great that the total output, were it rendered available, could not be marketed and consumed, it is quite evident that the measures for immediate recovery just cited could furnish no provision against a recurrence of the malady. For the restriction of business confidence under inflation at a higher price-level and greater freedom of world-trade would increase world-productivity by a fuller use of the special productive powers of each country without providing for an expansion of the markets for consumers' goods commensurate with such expanding productivity. The new

economies of productive power would cause a continuous reduction of employment of labour, with an output always tending to be excessive from the profit-making standpoint, and therefore requiring to be kept in check.

The remarkable Report upon Technocracy issued by a Committee of American Engineers at the close of 1932 bases a powerful plea for economic planning upon this continuous advance of machine-economy. A four-hours day in a four-days week for all the workers would suffice, they estimate, for an output that would maintain the whole population of the United States upon a standard of living far higher than any that has hitherto been attained. The implication of this argument is that nearly all the material needs, comforts and luxuries of modern life can be furnished so easily by standardised methods of production as to leave a constantly increasing quantity of leisure at the disposal of humanity. Planning will be directed to the equal or equitable distribution of the output of the product and of the leisure. It may be objected that such reasoning assumes that economic desires and satisfactions are limited, and that the economics of standardisation will not evoke new crops of more individualised demands so as to employ the surplus productive resources. The hitherto accepted presumption has been that no such limit can be set upon a rising standard of consumption, and that, if the satiety point is reached in the supply of certain standard needs, new demands will spring up, partly from the craving of consumers for more variety in existing goods and partly from the invention and stimulation of new tastes by wouldbe producers. In other words, improved technique need set no limit upon the volume of employment of capital and labour, for the productive power no longer needed in the most advanced industries will flow into new industries.

This has always been the accepted doctrine of the classical economics, borne out by a long course of experience. Is there sufficient reason for discarding it? Perhaps it is too early for a confident answer. The American estimates, even if approximately sound for the population of that country already highly placed in standardised consumption, will not at present

be applicable to the population of the world at large. Therefore, the quantity of export trade from America and other advanced countries, if a free flow were permitted, would seem to allow for a far larger employment of productive power than would be required for domestic consumption alone. But this qualifying consideration will be weakened with every expansion of the area of capitalism alike for trade and for developmental investment.

§ 5. The fundamental issue is whether the progressive character of the capitalist economy is such as to set a final limit on its growth. Though the recurrence of gluts and depressions appears to indicate the reality of such a limit, through the failure of much new capital to be operated profitably, the existence of great quantities of unsatisfied demand in the masses of the population makes it possible to argue that a more equal distribution of income and purchasing power would enable the capitalist system to work at full power. For it is evident that depressions in our present economic system are due to attempts on the part of the wealthy to save what is in the aggregate a larger share of the total money-income than can find productive employment through new investment, or, in other words, to withhold from purchase of consumers' goods large sums which, if so applied, would have kept the productive processes in full employment. This over-saving in good times can only be explained by recognising that for the well-to-do classes there does exist a satiety limit to their current expenditure upon consumptive goods and services, and that beyond that limit saving becomes an almost automatic process.

The question thus arises, supposing a planning which, following the admitted lines of social economic progress, applied more thoroughly the modern technique of production and secured such approximate equality of distribution as is contemplated by technocratic reforms, would not the tendency to check further consumption, manifested at present only by the wealthy few, be extended to the whole population placed, as it would be, on a basis of full security for the satisfaction of its economic needs and desires? It is not necessary to assume that such a limit to consumption is absolute. New wants

would come up and new types of satisfaction for old wants which would furnish employment for some capital and labour displaced by accelerated production in the older standard industries. But the net result would be that the conservatism of consumption as compared with the persistent progress of production would then force the underlying issue, viz., the planned limitation of the time and energy of man allotted to economic production, in order to secure for all an expansion of non-economic time and energy. In other words, the powers of cooperative man over the resources of nature for the supply of his economic wants would make a constantly reduced call upon his time and his activities. While the claims of the community for his contribution to the common wealth by his labour of body and mind would remain valid, they would form a diminishing tax upon his total energy, and an increasing amount would be available for those free personal activities and enjoyments which lie outside the economic field. Economic progress would thus consist in a continual diminution in the part which economic processes would occupy in human life.

§ 6. For the successful achievement of any consciously ordered economic system such as is here contemplated, one further proviso is requisite. A progressive standard of economic life, in the sense of a satisfaction of economic needs and a larger leisure, demands a social control of the growth of population. For the issue is between quantity and quality of life. A continuation of the free proliferation that has hitherto prevailed in most parts of the world, and is still checked only by war, disease and famine, in the greater part of Asia and Africa, would render impossible the achievement of that planned economy which is now contemplated. For an economy of increasing leisure rests on the assumption that a constantly improving technique in productive processes can satisfy the routine needs of a given population with a diminishing output of labour-time. But if over a large area of the world no check upon the birthrate takes place, while improved hygiene and transport reduce the mortality from disease and famine, the race between more mouths to feed and improved agriculture

will still continue, and fields, factories and railways will still be busily engaged in supplying a growing demand for economic goods and services with no such reduction of the hours of labour as has been envisaged. Or, alternatively, white labour in the Western world, by organised economic and political pressure within its several national areas, or by measures of international agreement, might secure a high standard of consumption and of leisure for its own peoples by imposing a sweating economy of low wages and long hours upon the growing populations of the backward countries. This policy of economic inter-imperialism by advanced Western Powers is not to be ruled out as wholly impracticable. Indications of a planned capitalism looking in this direction for a career of continuous profit are not lacking. Such a policy strongly pursued might win a long respite for an otherwise collapsing capitalism. Good profits for capital, good conditions for labour in Western countries might be secured by this exploitation of a growing supply of cheap labour and expanding markets in backward countries.

§ 7. So long as the limitation of the growth of population adopted by most white nations is not extended to the backward countries, the full contribution which modern industry can make to the enlargement of human welfare will therefore be unattainable. For the achievement of this end not only requires that the necessary work of production shall be so apportioned among producers as to yield the minimum aggregate of human cost in painful or injurious effort, and that the economic product shall be so apportioned among consumers as to yield the maximum satisfaction or utility of consumption. It also requires that the total part which economic production and consumption plays in the activities and satisfaction of human life shall be one of progressive diminution, leaving a larger and longer share of life free for the pursuit of those non-economic ends which are highest in the scale of human values.

Progress along this line of achievement evidently requires that the quantity and quality of physical life itself shall be brought within the scope of the conscious order, so far as that

process does not infringe the desirable liberty of private personality. Though it may not be feasible or desirable that a committee of international representatives should attempt to prescribe the "optimum" population for each country, having regard to its natural resources and its racial qualities or values, some attempt should certainly be made to educate the intelligence of the backward races in the regulation of the growth of their population. It may be that the more rapid intrusion of Western habits and standards, which is an inevitable result of economic intercourse and penetration, will bring increasing sections of China and India under the same pressures of family limitations as prevail in Western countries. But such a process might be intolerably slow, and should be strengthened and accelerated by a world-wide conscious education in what is rightly termed the economics of humanity, the truly democratic policy of how to get the best of life for all men. The obvious difficulties of any organised attempt at such regulation of the population of the world should stir all thoughtful men and women to increased efforts to solve a problem which, left unsolved, must continue to cripple and retard every movement towards the betterment of humanity.

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